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# Salmon Catch and Escapement Statistics For Copper River, Bering River, and Prince William Sound, 1989

By

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State of Alaska

Walter J. Hickel, Governor

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## ABSTRACT

The 1989 catch and escapement statistics for all Alaskan salmon species *Oncorhynchus* in the Copper River, Bering River, and Prince William Sound areas add to previous years as a reference for management of the salmon resource in this area. Catch information was compiled from commercial fish tickets, subsistence and personal use fish permits, and a postal survey of sport fishermen. Escapement data were taken from aerial and ground surveys, side scan sonar counts, and weir counts. Stratified systematic samples of age, sex, length, and weight were collected from salmon catches and escapements using standard sampling techniques for each select species, gear type, and fishing district.

Commercial, subsistence, personal use, and sport fishermen harvested 24,685,166 salmon in the Copper River, Bering River, and Prince William Sound areas in 1989. Pink salmon *Oncorhynchus gorbuscha* were the most numerous species in Prince William Sound, more than 90% of which were hatchery returns. The escapement index for all species and all areas was 2,365,971 salmon. Temporal variations in age composition of the catch were observed for sockeye salmon *O. nerka* and chinook salmon *O. tshawytscha* in the Copper River District and for chum salmon *O. keta* in the Eastern, Northern, and Coghill Districts.



KEY WORDS: Salmon, *Oncorhynchus*, Copper River, Bering River, Prince William Sound, catch, escapement, age, length, sex, and weight

# INTRODUCTION

Estimated 1989 salmon *Oncorhynchus* catches and escapements for the Prince William Sound management area were summarized and integrated with age, sex, and size composition data to provide the basic biological information necessary for their effective management. This information can be used to predict run strength based on parent and brood year returns, evaluate hatchery contributions, and assess harvest policies designed to effect maximum sustained yield.

Harvest and escapement abundance data, as well as age, sex, and size information, are collected annually in resource monitoring programs maintained by the Alaska Department of Fish and Game (ADF&G). Detailed harvest and escapement information for 1989 is presented for the Prince William Sound Management Area by Gilman et al. (1989) and Brady et al. (1991). These estimates are combined with age, sex, and size data obtained in 1989 and summarized in this report by species for each sampled fishery. This report builds upon the database established by Sharr and Peckham (1988), Sharr et al. (1988), Crawford and Simpson (1989), and Crawford and Simpson (1990). Detailed information for each fishery is presented in the Appendix.

## *Description of Area*

The Prince William Sound management area is divided into 11 fishing districts that encompass coastal waters and associated inland watersheds of the Gulf of Alaska between Cape Suckling and Cape Fairfield (Figure 1). The Copper River District (212) and Bering River District (200) to the east of Hook Point, Hinchinbrook Island have historically been treated as a discrete unit termed the Copper/Bering River area (Figure 2). Prince William Sound proper (PWS) lies to the west of Hook Point and includes the Eastern (221), Northern (222), Coghill (223), Northwestern (224), Eshamy (225), Southwestern (226), Montague (227), and Southeastern (228) Districts. The Unakwik District, previously designated as District 222-50, was redesignated as District 229 beginning in 1989.

### Copper/Bering River Area

Drift gillnets are the only legal commercial gear type in the Copper and Bering River Districts. Sockeye *Oncorhynchus nerka*, coho *O. kisutch*, and chinook salmon *O. tshawytscha* are the predominant species in the Copper River District harvest. In the Bering River District, sockeye and coho salmon dominate the catch. Pink *O. gorbuscha* and chum salmon *O. keta* catches are generally quite small and considered incidental in both districts.

A subsistence fish wheel fishery on the upper Copper River extends from Chitina to Slana (Figure 3). In addition, a personal use dip net and fish wheel fishery is restricted to a few miles of the river near Chitina. Both subsistence and personal use fisheries harvest large numbers of sockeye salmon and lesser numbers of chinook and coho salmon. Subsistence fishing is also permitted in the coastal commercial fishing areas simultaneously with commercial openings, but harvests of all species are generally low.

The sport fishery in the Copper/Bering River area targets primarily chinook and sockeye salmon in the upper Copper River drainage and coho and sockeye salmon in a few coastal streams.

Hatchery runs of sockeye salmon to the Copper River originate from the Gulkana I and II streamside incubation facilities located on the Gulkana River in the upper Copper River drainage. These facilities are owned and operated by the Alaska Department of Fish and Game (ADF&G), Division of Fisheries Rehabilitation, Enhancement and Development (FRED).

Wild stocks of sockeye salmon in the Copper and Bering River Districts spawn in tributaries and lakes of the upper Copper River, small coastal streams in the Copper River delta, and tributaries of the Bering River (ADF&G 1962). Coho salmon spawn primarily in coastal streams; chinook salmon spawn almost exclusively in the upper Copper River (ADF&G 1964; Thompson 1964).

**Prince William Sound Area**

Salmon of wild and hatchery origin are harvested in commercial fisheries throughout PWS. Several terms have been used to distinguish between the individual elements of the commercial harvest:

> *Commercial Common Property Catch*—all salmon that are caught and sold by the commercial fishing fleet, or *commercial fishery*, regardless of gear type.
>
> *Hatchery Cost Recovery Catch*—all salmon caught and sold by private non-profit hatcheries to pay for their operating expenses. This catch is taken in a special harvest area (SHA) adjacent to the hatchery by fishermen under contract to the facility operators (reported in previous publications as *hatchery sales harvest*).
>
> *Total Commercial Catch*—all salmon that are caught and commercially sold.

Purse seines are generally permitted in commercial (common property) fisheries in all districts of PWS except the Eshamy District (225), where only set gillnet and drift gillnet fisheries are permitted. Drift gillnets are also permitted in the Coghill (223) and the Unakwik (229) Districts. The Eshamy, Southwestern, and Montague Districts were closed to fishing in 1989 because of the potential for contamination of catches by oil from the Exxon Valdez spill.

Purse seine fisheries harvest most of the total pink and chum salmon commercial catch, as well as significant incidental catches of sockeye salmon. Gillnet fisheries, having much smaller total harvests, traditionally target sockeye salmon. In recent years large catches of pink and chum salmon have coincided with increased hatchery production of these species. Historically, harvests of chinook and coho salmon in PWS have been incidental; but fishermen have recently begun to target coho salmon returns to the Wally H. Noerenberg Hatchery on Esther Island. Initial returns of coho salmon to this facility began in 1987 from releases the previous year. Substantial coho catches also occur in the Valdez Arm and Port Valdez areas from Solomon Gulch Hatchery releases.

Subsistence harvests of salmon in PWS, composed primarily of sockeye salmon, are extremely small.

Pink and coho salmon are the predominant species harvested in PWS sport fisheries. Although the harvest occurs primarily in salt water, considerable sport fishing is also directed toward sockeye salmon in Coghill River and Eshamy Lagoon.

Five hatcheries are currently operating in PWS: the Solomon Gulch, Cannery Creek, Wally H. Noerenberg (WNH), Main Bay, and Armin F. Koernig (AFK) Hatcheries (Figure 1). The Solomon Gulch, WNH, and AFK facilities are owned and operated by private, non-profit organizations and primarily produce pink and chum salmon. The Cannery Creek facility, which primarily produces pink salmon, is owned by the State of Alaska and has been operated under contract by the Prince William Sound Aquaculture Corporation (PWSAC) since July of 1988. The Main Bay Hatchery, also owned by the State of Alaska, is operated by the Alaska Department of Fish and Game Division of Fisheries Rehabilitation Enhancement and Development. Currently the Main Bay Hatchery is raising full-term, one-check (reared in the hatchery over winter) sockeye salmon smolts. This facility originally produced chum salmon, some of which will continue to return for the next few years.

Pink and chum salmon wild stocks spawn in many small coastal streams on the mainland and islands throughout PWS. The largest sockeye escapements occur in Coghill Lake and Eshamy Lake. Other sockeye spawning areas include Cowpen, Miners, and Jackpot Lakes.

Harvest patterns for PWS in 1989 were substantially altered from traditional fishing patterns as a result of the Exxon Valdez oil spill (Brady et al. 1990). Commercial common property harvests were generally confined to terminal areas and concentrated in more northerly districts in 1989 than in recent years. Fishing districts in the western and southern portions of the sound were closed to prevent contamination of catches by oil exiting PWS to the west and south. A major impact of these actions was closure of the Southwestern District, which encompasses an entrance to PWS known to be a migratory pathway used by wild pink salmon stocks as well as hatchery stocks returning to other districts (McCurdy 1983). Traditionally this district has accounted for more than 50% of the PWS total commercial pink salmon harvest. The Eshamy and Montague Districts were also closed for the season.

## METHODS

### *Catch and Escapement Enumeration*

Salmon commercial common property, subsistence, personal use, sport, and hatchery cost recovery harvest estimates for the Copper/Bering River and Prince William Sound management areas were compiled from various sources and summarized. Estimates of escapement, indices of relative escapement abundance, and reported brood stock usage were likewise compiled and tabulated.

### Catch

Commercial salmon catches and fishing effort by fishing period and district or subdistrict were tabulated (Gilman et al. 1989) from sales receipts (i.e., fish tickets) supplied by fishermen and processors. Processors often estimated the number of fish sold by dividing landing weight by an estimated mean weight of fish by species. Because of the variation associated with estimates of mean weight, estimates of numbers caught may not be precise. However, because mean weight and corresponding variance were not reported on sales receipts, the estimated numbers caught were assumed to represent the actual catch.

Catches in subsistence and personal use fisheries are the sums of catches recorded on returned fishery permits as of June 1990. These catch figures are preliminary and may differ slightly from final published figures.

All sport fishery catches were estimated from postal surveys. The estimates were compared to creel census data from selected fisheries (Mills 1990).

### Hatchery Returns

Hatchery produced salmon were caught in commercial fisheries concurrently with wild stocks. Estimates of hatchery contributions of pink salmon to total run in 1989 were derived from coded wire tag mark-recapture data (Sharr and Peltz 1990). Hatchery fish were also harvested in hatchery cost recovery fisheries and enumerated from sales receipts. Although most of these fish are hatchery returns, some wild stock fish are undoubtedly taken in the SHA catches. Because their numbers are not known, hatchery cost recovery harvest was assumed to be all hatchery fish. Fish used for brood stock were enumerated in annual summary reports for each facility and summarized by Brady et al. (1990). A small number of carcasses from the brood stock were commercially sold in 1989 and were also summarized from fish tickets.

### Escapements

Salmon stocks of the Copper/Bering River and PWS areas for which escapement data were available were grouped into runs according to major spawning areas. In the Copper/Bering River area, stocks were grouped into two runs: (1) the delta/Bering run which includes all stocks of sockeye and coho salmon that spawn in coastal lakes and streams of the Copper River delta and Bering River watersheds; and (2) the upriver run which includes all stocks of sockeye and chinook salmon that spawn in the Copper River watershed upstream of Miles Lake.

The estimates of sockeye and coho salmon escapements to coastal Copper River delta and Bering River tributaries were based on peak counts obtained from periodic aerial surveys of selected spawning areas. Although aerial survey results primarily represent indices of the relative abundance of escapements

between stocks and years, they were used as estimates of total escapement in the absence of more precise data.

The upriver escapement of sockeye salmon in the Copper River was estimated using side-scanning sonar located just below the outlet of Miles Lake (Figure 2). The relative contributions of stocks which compose the total upper Copper River escapement were indexed by periodic aerial surveys. The escapement to Long Lake in the Chitina River drainage, included in the upriver sonar estimate, was directly enumerated with a weir.

For PWS, pink and chum salmon stocks in 215 index streams were enumerated from weekly aerial surveys. Sockeye salmon escapements to Coghill, Eshamy, and Jackpot Lakes were enumerated with weirs.

### *Description of Sampling Procedures*

Fish were sampled to determine their age, sex, and size. One scale was collected from each sampled sockeye, chum, and coho salmon, and three scales were collected from each sampled chinook salmon. Pink salmon were not sampled. Scales were taken from the left side of the body two rows above the lateral line in an area transected by a diagonal line from the posterior base of the dorsal fin to the anterior base of the anal fin (INPFC 1963). Scales were mounted on gum cards and impressions were made in cellulose acetate (Clutter and Whitesel 1956). Scale growth patterns were examined to determine the age of each fish sampled. Whenever marine growth zones on scales were resorbed, marine age was determined using Peterson length frequency analysis (Tesch 1970). Length in millimeters was measured from the middle of the eye to the fork of the tail. Sex was determined by inspection of morphological characteristics, or when possible, by gonadal inspection.

### *Catch Sampling*

Catches were grouped according to those which occur in the commercial fisheries of the Copper/Bering River and PWS areas and those which occur in the subsistence and personal use fisheries on the upper Copper River. Chinook salmon from two tributaries of the upper Copper River were sampled by Division of Sport Fish personnel and were the only sport catches of salmon sampled.

#### Commercial Fisheries

Age and sex composition of the season catch for each combination of species, gear, and fishing district were estimated with stratified systematic sampling programs according to Cochran (1977). Each sampling stratum was a combination of contiguous fishing periods. Prior to the season, target dates for sampling strata were based on temporal patterns from historical catches to provide for anticipated catches of similar magnitudes for all strata. The number of strata was selected according to the rapidity of change in age

composition as estimated in previous years. Catches for which there were no valid historical estimates of age and sex composition were divided into three or four strata to expose moderate temporal changes. Whenever possible, sampling occurred on a single day near the temporal midpoint of each stratum. For the Copper River District, fish in each sample were selected systematically from processors without regard to tender vessel or subdistrict of capture because Sharr (1983) found no differences in age composition during 1982 among tender loads from subdistricts within District 212.

Sample size goals for sockeye salmon for each commercial catch stratum were 650 fish from the Copper/Bering River area and 610 fish from PWS. Sample goals for other species were 675 chinook salmon, 600 coho salmon, and 400 chum salmon per stratum. These goals were originally selected so that sufficient numbers of ageable scales would be collected to simultaneously estimate the proportion of each major age class in the catch within ±5% of the true proportion 90% of the time based on the normal approximation of a binomial proportion (Goodman 1965; Cochran 1977). However, Thompson's (1987) work on the "worst case" parameter value for the multinomial distribution suggests that these goals may actually result in simultaneously estimating the true percentage of each age group within ±5% over 95% of the time.

Age composition and the associated variance was estimated with procedures outlined in Cochran (1977) for stratified sampling programs as follows:

$$C_{tj} = C_t P_{tj}; \tag{2}$$

$$V[C_{tj}] = (C_t)^2 \frac{P_{tj}(1-P_{tj})}{N_t - 1}; \tag{3}$$

$$C_j = \sum_{t=1}^{T} C_{tj}; \tag{4}$$

$$V[C_j] = \sum_{t=1}^{T} V[C_{tj}]; \tag{1}$$

where:

$C_t$= the number of fish caught during stratum t,

$P_{tj}$= the fraction of the sample taken during stratum t that is age j,

$N_t$= the sample size during stratum t,

$C_{tj}$= the estimated number of fish of age j caught during stratum t,

$T$= the number of strata, and

$C_j$= the estimate of the number of fish of age j caught during the season.

A correction factor for finite populations was not included in the calculations for variability because sample sizes were generally small relative to catches.

**Subsistence and Personal Use Fisheries**

A stratified systematic sampling program based on commercial catch projections by fishing period and migratory timing data for important upriver stocks (Merritt and Roberson 1983) was established for collecting sockeye salmon scale samples from the upper Copper River subsistence and personal use fisheries. Sampling stratification was modified during the course of the season due to logistical constraints. Although age compositions of fish from the two gear types, fish wheels and dip nets, were statistically different at different levels of significance for a variety of temporal combinations, the two gear types were sampled disproportionately during the season, and it was not possible to distinguish gear differences from temporal differences. For this reason, both gear types were pooled, and stratification of sampled catches was simplified to a single early stratum and a single late stratum.

The same formulae used for estimating numbers of fish by age in commercial catches were used to estimate subsistence and personal use catches by age. Age, sex, and size composition of chinook and coho salmon from upriver fisheries were not estimated due to the low number of fish harvested.

### *Escapement Sampling*

Sockeye salmon samples were collected from escapements to the Copper River delta/Bering River coastal drainages, as well as from escapements to the Coghill, Eshamy, and Jackpot Lakes in PWS. Methods of sample collection varied by area. For locations where sampling was temporally stratified, the age composition of the escapement was estimated using the same formulae used for the commercial catch but substituting escapement abundance for catch.

**Copper/Bering River Area**

Neither comprehensive enumeration studies nor detailed stratified sampling programs are possible on all coastal salmon streams of the Copper River delta and Bering River watersheds. Consequently, aerial survey techniques and simple systematic sampling programs were used to estimate escapement by sex and age and the associated variance to these areas as follows:

$$E_j = A_m Q_j ; \tag{5}$$

$$V[E_j] = (A_m)^2 \cdot \frac{Q_j(1-Q_j)}{N-1} ; \tag{6}$$

where:

$E_j$= the season escapement of fish of age j,

$A_m$= the peak number counted on the spawning grounds during aerial surveys,

$Q_j$= the estimate of the portion of the escapement of age j pooled over one or two sampling trips to the spawning grounds, and

$N$= the number of fish sampled in all sampling rips to the spawning grounds.

Because total escapement abundance to these areas was not available, peak aerial spawning ground counts were used to expand age proportions into rough estimates of numbers of fish in each age class in the escapements.

Sockeye salmon scale samples from the Copper River subsistence and personal use fisheries were assumed to also represent the age, sex, and size composition of upriver escapements because (1) these fisheries occur downstream of most major spawning tributaries of the system, and (2) the gear types used are assumed to be relatively free from size selectivity. Age and sex composition estimates from each catch stratum were applied directly to the sonar counts from Miles Lake. Temporal stratification of the sonar-estimated escapement paralleled that of the subsistence and personal use fisheries. Passage dates were lagged to account for fish travel time between Miles Lake and Chitina. Mean travel times in days were approximated from a linear regression of travel rate versus date as calculated from mark-recapture data (Merritt and Roberson 1983).

**Prince William Sound**

Stratified systematic sampling programs and weir counts were used to estimate the age, sex, and size composition of sockeye salmon escapements to Coghill, Eshamy, and Jackpot Lakes.

With the exception of the drift gillnet fishery in the Esther Subdistrict of the Coghill District, chum salmon harvested in PWS are taken primarily with purse seines. Because purse seines are assumed to be relatively non-selective for size and age, commercial catch samples were assumed to also represent age, sex, and size composition of escapements. Scale samples from chum salmon in the Wally H. Noerenberg Hatchery brood stock were collected by PWSAC and analyzed by division personnel. These samples provided an estimate of the age, sex, and size composition of chum salmon escapement in the Coghill District.

## RESULTS AND DISCUSSION

The total run of all species of salmon to the Copper/Bering River area and PWS in 1989 was estimated to be > 27,051,137 fish (Table 1). Pink salmon harvested in the commercial fisheries of PWS, 23,171,094 fish or 85.8%, composed the single largest component. Commercially harvested sockeye salmon from the Copper and Bering River Districts totaled 1,037,410 fish and were the next largest component composing 7.6% of the estimated total return of all species. Commercial catches exceeded other harvest types for all species and areas with the exception of PWS chinook salmon for which commercial harvest (1,103 fish) and sport harvest (1,093 fish) were similar. The subsistence/personal use harvest of sockeye salmon from the upper Copper River, 80,560 fish, was the largest harvest of these user groups, yet composed only 4.5% of the total catch of sockeye salmon in the Copper/Bering River area and only 0.3% of the total return of all species to all areas. The sport harvest of pink salmon in PWS totaled 37,994 fish, 54.3% of the sport harvest of all species from all areas and < 0.1% of the PWS pink salmon return.

Commercial harvests by gear type for both the Copper/Bering River area and PWS are summarized in Table 2. Purse seine catches in PWS commercial common property fisheries predominated the harvests of both pink, 13,125,073 fish, and chum, 667,563 fish, salmon. Drift gillnet fishermen in the Copper/Bering River area caught most of the commercial harvests of sockeye (1,035,148 fish), chinook (30,893 fish), and coho salmon (221,406 fish).

Personal use dip net catches (50,323 fish) and subsistence fish wheel catches (24,550 fish) of sockeye salmon in the upper Copper River accounted for 92.4% of the subsistence/personal use harvest of this species and 86.6% of all species from all areas (Table 3).

Pink salmon caught in marine waters near Valdez by sport fishermen totaled 32,879 fish and composed 86.5% of the sport harvest for this species from all areas (Table 4). Coho salmon sport catches totaled 25,649 fish, of which 18,134 were taken in the vicinity of Valdez.

Peak aerial survey counts of pink salmon escapements in PWS (Table 5) totaled 1,272,770 fish in 1989, the largest segments observed in the Eastern (359,730 fish) and Southeastern (315,000 fish) Districts. Chum salmon peak counts in the Eastern District totaled 112,080 fish and accounted for 46.1% of the total escapement of this species in PWS. Sonar counts obtained from the Miles Lake facility totaled 607,797 fish. Although species composition is not estimated for these sonar counts, sockeye salmon are the most numerous species present; hence, counts are considered to be entirely sockeye salmon. Aerial survey estimates of chinook salmon from the upper Copper River area totaled 4,367 fish. Although aerial survey counts of coho, pink, and chum salmon were not reported, aerial observations indicated escapements for these species were small.

Appendices A and B present age and sex composition by species for all sampled strata of the Copper/Bering River area commercial, subsistence, personal use and sport catches, as well as daily catches for upriver subsistence and personal use catches. Escapement aerial survey counts, daily Miles Lake sonar and Long Lake weir counts, as well as age and sex composition of escapements by location, are presented in Appendices C and D. Appendix E contains age and sex composition of PWS commercial harvests for each sampled district and time stratum. Aerial escapement estimates, daily weir counts, and age and sex composition of PWS escapements are presented in Appendix F. Mean length by age and sex for all fish sampled can be found in Appendix G, and average weights of commercially caught fish are in Appendix H.

### *Copper/Bering Rivers*

The commercial, subsistence, personal use, and sport fisheries in the Copper River District (212) and the Bering River District (200) share geographic proximity, occur simultaneously, and are all directed at stocks of sockeye, coho, and chinook salmon returning to the Copper/Bering River area.

#### Sockeye Salmon

*Catch.* In the Copper River District 1,025,923 sockeye salmon were commercially harvested in 1989 (Table 6). Sockeye catches peaked during the second opening on 18 and 19 May (152,843 fish) and again during the fourth opening between 25 and 27 May (151,393 fish). Catches dropped sharply during the month of June, increased slightly from early July to mid-July, then declined steadily for the remainder of the season (Figure 4).

The age composition of the season total catch for combined sampled strata combined was 75.8% age 1.3, 12.1% age 2.3, 5.5% age 1.2, 4.7% age 0.3, and 1.9% other ages (Table 7). The percentage of age-1.3 fish was temporally bimodal with peak abundances of 81.0% in late May and 83.7% in mid-June (Figure 5, Appendix A.1). Low values of 69.4% were recorded in early June and 65.6% in mid-July. The percentage of the catch aged 2.3 was also variable through the season ranging from a high of 16.7% in early June to a low of 3.9% in late June. Age-0.3 fish declined from a high of 8.2% for the first sample in mid-May to 1.3% in early June and remained relatively low through the rest of the season. Conversely,

fish aged 1.2 composed only 0.2% of the catch in mid-May but increased steadily to a high of 15.6% in late July.

The Bering River District sockeye fishery was opened on 19 June, 1 month later than the Copper River District (Table 6). As in most recent years, fishing was concentrated over a relatively short period and substantial catches were reported for only two fishery openings (Figure 4). Total sockeye salmon harvest for the district was 9,225 fish including small incidental catches during the directed coho salmon fishery. The sampled catch was composed of 68.8% age-1.3, 17.2% age-1.2, 9.1% age-2.3, and 4.9% other age fish (Table 7, Appendix A.2).

The subsistence and personal use sockeye fisheries on the upper Copper River began on 1 June, and totaled 80,221 fish (Appendix B.1). Peak daily catches occurred in early June and late July (Figure 6). Of the total, 34.6% were taken with fish wheels and 65.4% with dip nets. Fish aged 1.3 (62.6%) and 2.3 (2.8%) were lower in relative abundance than in the commercial catch (Table 7). Age-1.2 fish (31.5%) composed a much larger portion than in the commercial catch. The contribution of age-1.3 fish declined from 78.7% during June and the first half of July to 42.7% in late July (Appendix B.2). The contribution of fish aged 1.2 increased from 13.0% to 54.3% during the same intervals.

Of the 4,509 sockeye salmon harvested by sport fishermen in the upper Copper River, 96.4% were caught in the Gulkana and Klutina River drainages (Table 4). The 1989 sport harvest of sockeye salmon in coastal areas of the Copper River District was included in catches reported for PWS. Observations of local area biologists indicated that several hundred fish were probably caught in a few easily accessible streams near Cordova.

*Escapement.* Aerial surveys indicated 51,700 sockeye salmon escaped into spawning areas of the Copper River Delta and 23,300 into the Bering River drainage (Table 5, Appendix C.1). Although aerial surveys do not represent actual escapements, they are used as an index of their relative importance. Fish aged 1.3 composed 63.4% of escapements to the upper Copper River and 71.1% of escapements to the Bering River area (Table 8). Age-1.3 fish were the most abundant age group overall in Copper River Delta escapements (36.9%) and were similar in abundance to age-1.2 fish (34.7%) for this run (Figure 7). Fish aged 1.2 composed 30.5% of the upper Copper River escapement, but only 11.6% of the Bering River run. Age-2.3 fish contributed 12.1% of the Bering River escapement and 8.4% of the Copper River delta escapement. The age-2.3 contribution to the upper Copper River was 2.9%.

An estimated 607,797 salmon passed the Miles Lake sonar site in 1989 (Table 5, Figure 7). Included in this count are 4,367 chinook salmon observed in aerial surveys. Escapement occurred from late May to early August (Figure 8). Peak daily counts of 8,000–14,000 fish occurred in late May, early June, and mid-July (Appendix D.1). Estimated age composition of the escapement past Miles Lake (Figures 7 and 8, Appendix D.4) was based on samples collected from upriver subsistence and personal use fisheries (Table 7).

**Chinook Salmon**

*Catch.* Most of the 30,863 chinook salmon caught in the Copper River District in 1989 were harvested between 15 May and 16 June (Table 9). Percent age composition of the total commercial catch was 61.7% age 1.4, 24.5% age 1.3, 2.9% age 2.4, and 10.9% other age groups (Table 10). Fish aged 1.4 were most numerous in the catch throughout the season (Figure 9, Appendix A.3).

A total of 2,904 chinook salmon were caught in the upper Copper River subsistence and personal use fisheries (Table 3). Most of these chinook salmon (75.7%) were captured using dip nets, and the remainder were taken by fish wheels. No information is available on the age composition of the chinook salmon subsistence or personal use harvests.

Mills (1990) estimated a sport harvest of 2,356 chinook salmon from the upper Copper River drainage (Table 4). Virtually all of these fish were caught in the Gulkana and Klutina River drainages. The age composition of samples from those catches (Table 10, Appendix B.3) were predominantly age 1.4, 66.7% for the Gulkana River and 69.3% for the Klutina River. Age-1.3 fish composed 27.0% of the Gulkana and 26.7% of the Klutina River harvests.

*Escapement.* Aerial surveys of the 1989 chinook salmon escapement (4,367 fish) in the upper Copper River (Appendix D.3) indicate that the observed escapement was well above average for this area. The escapement estimate for selected index streams was 3,657 fish compared to the 1979–88 average index of 2,873 (Brady et al. 1990).

**Coho Salmon**

Substantial catches of coho salmon in the Copper River District began in early August and continued until the season closure in late September (Table 11, Figure 10). Of the 194,454 coho salmon caught in the Copper River District, 51.8% were age 1.1 and 47.5% were age 2.1 (Table 12). A slight shift in the age composition was observed during the season (Appendix A.4). Age-2.1 fish were slightly more abundant in early August (54.0%), whereas age-1.1 fish were increasingly more abundant thereafter (52.1% in late August and 55.4% in early September).

The 1989 Bering River District coho salmon catch of 26,952 fish occurred almost exclusively in the Katalla and Controller Bay areas (Table 11, Figure 10). Age-2.1 fish composed a slightly greater portion of the Bering River catch (59.8%) than of the Copper River commercial catch (Appendix A.5). There was little change in the age composition over time for this district (Figure 11).

ADF&G estimated a subsistence and personal use catch of 941 coho salmon in the Copper/Bering River area (Table 3). Sport fishermen harvested 2,100 coho salmon from Eyak River and an unknown number from a few easily accessible coastal streams on the Copper River delta (Table 4). No age or sex composition data are available for these fisheries.

No aerial escapement estimates were made for coho salmon in the upper Copper River drainage in 1989. Traditionally, aerial survey counts of coho salmon escapements to the upper Copper River are quite low.

Aerial survey data (Appendix C.2) provided escapement estimates of 41,366 fish to the Copper River delta and 15,835 fish to the Bering River drainage (Table 5). Although aerial surveys do not represent actual escapements, they are used as an index of their relative importance. No age or sex composition data are available for these escapements.

### *Prince William Sound*

Fisheries in the nine fishing districts in PWS (Districts 221-229) share geographic proximity, occur simultaneously, and are directed at salmon stocks of PWS origin. Chinook salmon are incidental in PWS catches and are not discussed in the text.

#### Sockeye Salmon

A total of 137,401 sockeye salmon were commercially harvested in PWS in 1989 (Table 2). The drift gillnet catch of 127,526 sockeye salmon included 106,114 fish from the Coghill District and 21,412 fish from the Unakwik District. The Eshamy District was closed for the entire season due to the possibility of contamination of catches by oil from the Exxon Valdez accident.

The largest sockeye catches in the Unakwik and Coghill Districts occurred during the last two weeks of June and the first week of July (Table 13, Figure 12). Fish aged 1.3 composed 91.9% of the catch in the Unakwik and 94.8% in the Coghill Districts (Table 14). The age composition of sockeye salmon from the Coghill District varied little throughout the season (Figure 13, Appendix E.2).

The largest weekly purse seine catch of sockeye salmon (4,238 fish) in PWS occurred in late July and accounted for 43.0% of the total harvest of 9,851 fish (Table 13). Approximately 73.8% of the sockeye salmon purse seine harvest occurred in the Northern (42.0%) and Eastern (31.8%) Districts.

The reported subsistence catch of sockeye salmon in PWS was 429 fish (Table 3). Age and sex composition data were not available for these small harvests.

An estimated 3,939 sockeye salmon were caught in the PWS area sport fishery (Table 4). Because of the way in which sport harvests are summarized and reported by Sport Fish Division, this estimate also includes an estimated several hundred fish taken from a number of drainage systems generally included in Copper River delta/Bering River area summaries by Commercial Fisheries Division.

A total of 37,751 sockeye salmon were counted through the Coghill weir in 1989 (Figure 14, Appendix F.1). Approximately 60.6% of the escapement passed the weir in 6 d from 10 July through 15 July. Peak daily counts of 5,783 fish were recorded on 11 July and 5,534 on 13 July. The escapement age

composition through the weir was estimated as 82.4% age 1.3 and 10.1% age 2.3, and the remaining 7.5% primarily age 2.2 (Table 15). The contribution of age-1.3 fish remained high throughout the season, ranging from 71.2% in late June to 84.9% for the second and 82.8% for the third sampling strata in early July and mid-July (Figure 14, Appendix F.7).

The escapement through Eshamy weir of 58,127 sockeye salmon (Appendix F.2) occurred later and was more prolonged than the escapement at Coghill weir (Figure 15). The age composition of the escapement was 78.8% fish aged 1.2 and 12.8% fish aged 2.2. The percentage of age-1.2 fish increased steadily from 69.6% in mid-July to 92.9% in late August (Figure 15, Appendix F.8) as contributions of other age groups declined.

A weir was installed on the Jackpot Lake outlet stream for the first time in 1989 in response to the need to assess impacts of the Exxon Valdez oil spill. Although the weir was installed after the spawning migration was already underway, a total of 2,983 fish were counted past the weir. Peak daily counts of 799 fish were observed on 5 July and 465 on 25 July (Appendix F.3). Daily passage rates were too low to stratify age sampling, and samples were collected over the course of the season (Appendix F.9). Age composition was similar to that of Coghill weir sockeye samples, i.e. ages 1.3 (82.6%) and 2.3 (6.9%) were the most abundant.

Other sockeye salmon runs in PWS are much smaller by comparison, and escapement information is provided by aerial surveillance (Appendix F.4).

**Coho Salmon**

In 1989, 69,428 coho salmon were harvested by commercial purse seine and 80,764 by commercial gillnet fisheries in PWS (Table 2). The largest purse seine catches occurred in the Coghill (56.9%) and Eastern (30.1%) Districts. With the exception of 27 fish reported taken in the Unakwik District, nearly all coho salmon taken with gillnets in PWS were harvested by drift gillnet fishermen in the Coghill District. The majority of those fish probably originated from the Wally H. Noerenberg Hatchery (L.R. Peltz, Alaska Department of Fish and Game, Cordova, personal communication). Coho catches peaked in late August and early September (Table 16). Age-1.1 fish (92.2%) were the most abundant age group in Coghill District catches (Table 17), increasing from 85.2% in mid-August to 99.3% in early September.

The subsistence catch of coho salmon in PWS was small, totalling only 628 fish (Table 3).

In recent years the sport fishery in PWS has increasingly targeted on coho salmon. Mills (1990) estimated that 25,631 coho salmon were caught by sport fishermen in PWS and drainages of the Copper River delta and Bering River (Table 4). A portion of this catch can probably be attributed to successful returns of hatchery-reared coho salmon released at Whittier, Valdez, and Cordova in 1988 (Holland 1989). Holland (1990) estimated that sport fishermen harvested over 4,000 coho salmon in PWS that originated from FRED Division smolt releases.

In addition to enhancement of commercial common property and sport harvests, coho salmon hatchery runs also contributed a total of 52,307 fish to the hatchery cost recovery harvest at the Solomon Gulch Hatchery (Table 2).

**Chum Salmon**

Of the 995,887 chum salmon commercially harvested by all users in PWS, 667,563 (67.0%) were caught by purse seine fishermen and 194,988 (19.6%) by drift gillnet fishermen (Table 2). The majority of the purse seine catch came from the Eastern District (51.1%), and most of the remainder was taken in the Northern (28.9%) and Coghill (18.7%) Districts (Table 18). Peak catches occurred in the Eastern District from early to late July (Figure 16). In the Northern District large catches were sporadic, and peak weekly catches occurred in late June, late July, and mid-August. Gillnet harvest of chum salmon in the Coghill District was greatest in late June and generally declined through the season. Purse seine harvests peaked about mid-August. Nearly all of the PWS gillnet chum salmon catch occurred in the Coghill District (Table 18). Fishermen in the district primarily targeted fish returning to the Wally H. Noerenberg Hatchery on Esther Island.

Age-0.3 chum salmon were the largest age group for all commercial purse seine (74.8%) and gillnet (76.2%) catch samples (Table 19). The remainder were primarily age-0.4 fish, 19.5% for both gear types combined. In all sampled districts there were temporal increases in the abundance of age-0.3 fish and corresponding decreases in age-0.4 fish (Figure 17, Appendices E.3-E.5).

Hatchery cost recovery harvests accounted for 129,525 chum salmon (13.0%) of the total commercial harvest of this species in 1989 (Table 2). The special Main Bay hatchery cost recovery harvest peaked in early July (Figure 16) and accounted for 79.4% of the total cost recovery sales. Age-0.4 fish predominated in this catch in late June (67.1%) but declined to 30.2% of the catch by late July (Figure 17, Appendix E.6). In contrast, age-0.3 fish increased from 26.1% of the catch to 63.0% over the same period.

Preliminary estimates from coded wire tag mark-recapture data (Brady et al. 1990) indicate that approximately 199,611 fish (23.0%) of the chum salmon commercial harvest originated from hatcheries (Table 20). The estimated hatchery cost recovery harvest from all facilities and the estimated commercial common property harvest of hatchery-produced chum salmon was 330,973 fish, and composed 33.2% of the total commercial harvest of this species in PWS.

Subsistence harvest of chum salmon in PWS was very low, and was estimated to be less than 400 fish. The estimated total sport fishery catch of 3,635 chum salmon for the area (Table 4) occurred primarily in salt water near Valdez.

**Pink Salmon**

Of the 1989 PWS total commercial harvest of 21,860,330 pink salmon, 13,125,073 fish (60.0%) were taken by purse seine fishermen and 670,342 fish (3.3%) were taken by gillnet fishermen in commercial common property harvests. Of the commercial common property harvest, 46.6% were taken with purse seines in the Northern District, 23.9% with purse seines in the Coghill District, and 22.8% with purse seines in the Eastern District (Table 21, Figure 18). Peak catches for these fisheries occurred in mid-July in the Eastern District, late July in the Southeastern District, mid-August in the Northern District, and mid- to late August in the Coghill District, and late August in the Northwestern District (Figure 19).

Of the total commercial catch, 36.7% was taken for hatchery cost recovery. Preliminary estimates from coded wire tag recoveries indicate that approximately 12,368,007 pink salmon form the commercial common property harvest originated from hatcheries (Table 22). The total commercial harvest of hatchery-produced pink salmon in PWS was estimated at 21,393,797 fish or 97.9%.

Subsistence harvest of pink salmon was very low and was estimated to be less than 400 fish. An estimated 37,994 pink salmon were caught by sport fishermen (Table 4), and most were taken in marine waters near Valdez and Whittier.

Estimated escapements of wild stock pink salmon in PWS during 1989 (Figure 18, Appendix F.5) were below anticipated levels in all districts that were open to commercial fishing (Brady et al. 1990). Aerial escapement estimates for districts that were closed to fishing were generally slightly above anticipated levels.

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Table 1. Salmon harvest and indexed escapement by sepcies and fishery from the Copper/Bering River and Prince William Sound areas, 1989.

| Area and Fishery Element | Catch by Species (No. of Fish) | | | | |
|---|---|---|---|---|---|
| | Sockeye | Chinook | Coho | Chum | Pink |
| **Copper/Bering River Area** | | | | | |
| Total Commercial Catch | 1,037,410 | 30,903 | 222,366 | 5,896 | 26,136 |
| Subsistence/Personal Use Catch | 80,560 | 2,960 | 941 | [b] | [b] |
| Sport Catch [a] | 4,712 | 2,356 | 2,118 | 0 | 0 |
| Indexed Escapement | 682,797 | 4,367 | 57,201 | | |
| Copper/Bering River Total | 1,805,479 | 40,586 | 282,626 | 5,896 | 26,136 |
| **Prince William Sound Area** | | | | | |
| Total Commercial Catch | 137,828 | 1,103 | 202,614 | 995,887 | 21,860,330 |
| Subsistence/Personal Use Catch | 429 | 0 | 628 | [c] | [c] |
| Sport Catch [a] | 3,736 | 1,093 | 23,531 | 3,635 | 37,994 |
| Indexed Escapement | 105,221 | 43 | 262 | 243,310 | 1,272,770 |
| Prince William Sound Total | 247,214 | 2,239 | 227,035 | 1,242,832 | 23,171,094 |
| **Total All Areas** | 2,052,693 | 42,825 | 509,661 | 1,248,728 | 23,197,230 |

[a] Some minor sport harvests of anadromous salmon are not reported by specific locations. Consequently, upper Copper River estimates may include a small number of fish from Susitna River tributaries, and Prince William Sound estimates may include a small number of fish from Copper River delta/Bering River coastal streams.

[b] A total of 149 fish of other species including salmon, trout, and whitefish were reported caught but species composition was not estimated.

[c] A total of 768 fish of other species were reported caught and were estimated to be composed of approximately half pink and half chum salmon.

Table 2. Commercial salmon harvest by species, gear type and district from the Copper/Bering River and Prince William Sound areas, 1989.

| Area/Gear | District or Hatchery Name | Location Code | Catch by Species (No. of Fish) Sockeye | Chinook | Coho | Chum | Pink |
|---|---|---|---|---|---|---|---|
| **Copper/Bering River Area** | | | | | | | |
| Drift Gillnet | Copper River | 212 | 1,025,923 | 30,863 | 194,454 | 5,845 | 25,877 |
| | Bering River | 200 | 9,225 | 30 | 26,952 | 2 | 7 |
| | Total | | 1,035,148 | 30,893 | 221,406 | 5,847 | 25,884 |
| Educational Permit[a] | Copper/Bering | 200/212 | 2,262 | 10 | 960 | 49 | 252 |
| Copper/Bering River Total | | | 1,037,410 | 30,903 | 222,366 | 5,896 | 26,136 |
| **Prince William Sound Area** | | | | | | | |
| Drift Gillnet | Coghill | 223 | 106,114 | 364 | 80,737 | 194,584 | 628,522 |
| | Eshamy[b] | 225 | 0 | 0 | 0 | 0 | 0 |
| | Unakwik | 229 | 21,412 | 31 | 27 | 404 | 41,820 |
| | Total | | 127,526 | 395 | 80,764 | 194,988 | 670,342 |
| Set Gillnet | Eshamy[b] | 225 | 0 | 0 | 0 | 0 | 0 |
| | Total | | 0 | 0 | 0 | 0 | 0 |
| Purse Seine | Eastern | 221 | 3,135 | 528 | 20,894 | 341,142 | 3,151,096 |
| | Northern | 222 | 4,134 | 83 | 7,044 | 193,155 | 6,422,270 |
| | Coghill | 223 | 2,030 | 61 | 39,484 | 124,639 | 3,296,965 |
| | Northwest | 224 | 406 | 2 | 1,684 | 7,862 | 181,565 |
| | Southwest | 226 | 0 | 0 | 0 | 0 | 0 |
| | Montague | 227 | 0 | 0 | 0 | 0 | 0 |
| | Southeast | 228 | 146 | 5 | 322 | 765 | 73,177 |
| | Unakwik | 229 | 0 | 0 | 0 | 0 | 0 |
| | Total | | 9,851 | 679 | 69,428 | 667,563 | 13,125,073 |
| Hatchery Cost Recovery Harvest[c] | Solomon Gulch | 221-61 | 11 | 9 | 52,307 | 1,658 | 873,002 |
| | Cannery Creek | 222-21 | 0 | 0 | 0 | 0 | 631,284 |
| | Wallace H. Noerenberg | 223-41 | 0 | 0 | 0 | 16,172 | 2,786,348 |
| | Armin F. Koernig | 226-62 | 0 | 0 | 0 | 8,884 | 3,715,739 |
| | Main Bay[d] | 225-21 | 13 | 0 | 0 | 102,811 | 0 |
| | Total | | 24 | 9 | 52,307 | 129,525 | 8,006,373 |
| Educational Permit[a] | Eastern | 221 | 60 | 1 | 5 | 554 | 29,732 |
| | Coghill | 223 | 0 | 0 | 79 | 386 | 16,347 |
| | Total | | 60 | 1 | 84 | 940 | 46,079 |
| Oil Contaminated | | | 57 | 0 | 22 | 777 | 9,181 |
| ADF&G Test Fish | | | 170 | 19 | 9 | 1,932 | 3,090 |
| Confiscated | | | 140 | 0 | 0 | 162 | 192 |
| | Total | | 367 | 19 | 31 | 2,871 | 12,463 |
| Prince William Sound Total | | | 137,828 | 1,103 | 202,614 | 995,887 | 21,860,330 |
| **Total All Areas and Gear Types** | | | 1,175,238 | 32,006 | 424,980 | 1,001,783 | 21,886,466 |

[a] Cordova High School educational special permit.
[b] Closed to commercial fishing due to possibility of contamination from Exxon Valdez oil spill.
[c] Harvest is from purse seines.
[d] Although owned and operated by FRED Division, oil contamination in Main Bay precluded an orderly common property fishery and a one-time agreement was reached with PWSAC to allow them to harvest returning chum salmon in the bay as a hatchery cost recovery harvest in 1989.

Table 3. Subsistence and personal use harvest by species, fishery, and gear type for the Copper/Bering River and Prince William Sound areas, 1989. Data are preliminary and based on incomplete permit returns.

| Area/Fishery | Gear | Location | Catch by Species (No. of Fish) Sockeye | Chinook | Coho | Other[a] |
|---|---|---|---|---|---|---|
| **Copper/Bering River Area** | | | | | | |
| Personal Use | Dip Net | Upper Copper River | 50,323 | 2,130 | 814 | 54 |
| | Fish Wheel | Upper Copper River | 3,182 | 30 | 11 | 0 |
| | Total | | 53,505 | 2,160 | 825 | 54 |
| Subsistence | Dip Net | Upper Copper River | 2,166 | 68 | 1 | 0 |
| | Fish Wheel | Upper Copper River | 24,550 | 676 | 64 | 87 |
| | Drift Gillnet | Copper River Delta/Bering River | 339 | 56 | 51 | 8 |
| | Total | | 27,055 | 800 | 116 | 95 |
| Copper/Bering River Total | | | 80,560 | 2,960 | 941 | 149 |
| **Prince William Sound** | | | | | | |
| Subsistence | Drift Gillnet | Prince William Sound General | 0 | 0 | 0 | 3 |
| | Mixed Gear[b] | Tatitlek | 107 | 0 | 628 | 31[c] |
| | | Southwestern (Chenega) | 322 | 0 | 0 | 734[c] |
| Prince William Sound Total | | | 429 | 0 | 628 | 768 |
| **Total All Areas** | | | 80,989 | 2,960 | 1,569 | 917 |

[a] Includes steelhead, char, whitefish, other salmon, and miscellaneous species.
[b] Special subsistence harvest initiated in 1989.
[c] Other species composition estimated to be half pink salmon and half chum salmon.

Table 4. Sport fishery harvest and effort by location and species in the upper Copper River and in the Copper River Delta, Bering River, and Prince William Sound areas combined, 1989.

| Area | Location/Fishery | Anglers | Trips | Days Fished | Sport Fish Harvest by Species | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | Sockeye | Chinook | Coho | Chum | Pink |
| **Upper Copper River** [a] | Gulkana River | | | | | | | | |
| | Float – Paxson to Sourdough | 2,429 | 1,547 | 3,358 | 598 | 362 | 0 | 0 | 0 |
| | Float – Sourdough to Highway | 1,903 | 1,547 | 2,701 | 222 | 419 | 0 | 0 | 0 |
| | Other | 5,446 | 7,162 | 9,226 | 1,836 | 849 | 0 | 0 | 0 |
| | Klutina River | | | | | | | | |
| | Boat | 1,485 | 1,516 | 1,485 | 495 | 272 | 0 | 0 | 0 |
| | Bank | 3,357 | 3,311 | 4,568 | 888 | 380 | 0 | 0 | 0 |
| | Other Streams | 2,748 | 3,710 | 5,182 | 145 | 34 | 18 | 0 | 0 |
| | Paxson Lake | 3,589 | 3,898 | 4,099 | 34 | 0 | 0 | 0 | 0 |
| | Summit Lake (near Paxson) | 2,336 | 2,181 | 2,936 | 273 | 0 | 0 | 0 | 0 |
| | Other Lakes | 3,599 | 3,718 | 6,745 | 18 | 40 | 0 | 0 | 0 |
| Area Total | | 24,489 [b,c] | 28,590 | 40,300 | 4,509 | 2,356 | 18 | 0 | 0 |
| **Copper River Delta Bering River and Prince William Sound** | FRESHWATER: | | | | | | | | |
| | Eyak River | 1,228 | 4,163 | 7,347 | 203 | 0 | 2,100 | 0 | 137 |
| | Coghill River | 415 | 415 | 415 | 344 | 0 | 9 | 0 | 86 |
| | Other Streams | 2,029 | 3,927 | 6,012 | 767 | 0 | 2,213 | 73 | 971 |
| | Other Lakes | 1,070 | 1,277 | 1,402 | 18 | 0 | 9 | 0 | 111 |
| | Subtotal | 3,796 [c] | 9,782 | 15,176 | 1,332 | 0 | 4,331 | 73 | 1,305 |
| | SALTWATER: | | | | | | | | |
| | Valdez Bay | | | | | | | | |
| | Boat | 10,336 | 17,417 | 28,985 | 326 | 374 | 13,868 | 1,497 | 14,740 |
| | Shoreline | 2,154 | 4,035 | 3,746 | 238 | 117 | 1,409 | 257 | 2,369 |
| | Shoreline/Road System | 8,278 | 11,229 | 15,740 | 264 | 35 | 2,857 | 964 | 15,770 |
| | Passage Canal – Boat | 2,408 | 3,318 | 6,592 | 352 | 70 | 587 | 147 | 918 |
| | Orca Inlet | | | | | | | | |
| | Boat | 510 | 1,579 | 2,468 | 53 | 0 | 180 | 0 | 172 |
| | Shoreline | 447 | 1,340 | 1,929 | 0 | 0 | 596 | 64 | 240 |
| | Other | | | | | | | | |
| | Boat | 3,562 | 8,922 | 15,437 | 1,321 | 380 | 953 | 596 | 1,983 |
| | Shoreline | 1,326 | 2,155 | 5,222 | 53 | 117 | 850 | 37 | 497 |
| | Subtotal | 24,069 [c] | 49,995 | 80,119 | 2,607 | 1,093 | 21,300 | 3,562 | 36,689 |
| Area Total | | 26,238 [c] | 59,777 | 95,295 | 3,939 | 1,093 | 25,631 | 3,635 | 37,994 |
| **Total All Areas** | | 50,727 [c] | 88,367 | 135,595 | 8,448 | 3,449 | 25,649 | 3,635 | 37,994 |

[a] Includes drainages of the Copper River upstream from a line between the south bank of Haley Creek and the south bank of Canyon Creek in Wood Canyon.
[b] Maximum estimate. Includes some fishermen who may have fished only in waters of the upper Susitna River drainage.
[c] Angler totals may not equal sum of sites due to some anglers fishing at more than one site.

Table 5. Salmon escapements and escapement indices by species and district in the Copper/Bering River and Prince William Sound areas, 1989.

| Area and District | Statistical Area | Escapement by Species | | | | |
|---|---|---|---|---|---|---|
| | | Sockeye | Chinook | Coho | Chum | Pink |
| **Copper/Bering River Area** | | | | | | |
| Copper River – | 212 | | | | | |
| Copper River Delta[a] | | 51,700 | 0 | 41,366 | 0 | 0 |
| Upper Copper River | | 607,797 [b] | 4,367 [a] | | | |
| Bering River[a] | 200 | 23,300 | 0 | 15,835 | 0 | 0 |
| Area Total | | 682,797 | 4,367 | 57,201 | 0 | 0 |
| **Prince William Sound Area[c]** | | | | | | |
| Eastern | 221 | | | | 112,080 | 359,730 |
| Northern | 222 | 2,500 [d] | | | 46,470 | 106,530 |
| Coghill | 223 | 38,751 [e] | 34 [f] | | 22,680 | 45,510 |
| Northwestern | 224 | 1,260 [d] | | | 27,430 | 68,540 |
| Eshamy | 225 | 58,127 [f] | 1 [f] | | 320 | 19,470 |
| Southwestern | 226 | 4,583 [e] | 8 [f] | 262 [f] | 11,690 | 176,230 |
| Montague | 227 | | | | 0 | 181,760 |
| Southeastern | 228 | | | | 22,640 | 315,000 |
| Area Total | | 105,221 | 43 | 262 | 243,310 | 1,272,770 |

[a] Based on periodic aerial surveys of salmon streams (Appendices C.1–2 and D.3).

[b] Miles Lake sonar count (Appendix D.1). Species composition not estimated. However, sockeye salmon are by far the most numerically abundant species, and counts for all species are included in the sonar escapement estimate. Aerial surveys indicated coho, pink, and chum salmon escapements to the upper Copper River to be very small. The aerial survey counts of sockeye salmon totaled 110,821 fish.

[c] Escapement estimate for pink and chum salmon in Prince William Sound are based on aerial counts of regularly surveyed streams adjusted for stream life. Escapements of other salmon species are generally insignificant and are not recorded except as noted.

[d] Based on peak observed aerial count during regularly scheduled surveys.

[e] Based on weir counts plus peak observed aerial counts of other district streams in scheduled surveys.

[f] Weir count.

Table 6. Copper/Bering River management area sockeye salmon commercial common property catch and effort by district and fishing period from final fish ticket summaries, 1989.

| | Fishing | | | Copper River | | Bering River | |
|---|---|---|---|---|---|---|---|
| Week | Period | Dates | Hours | Effort [a] | Catch | Effort [a] | Catch |
| 21 | 1 [b] | 05/15–05/16 | 24 | 301 | 48,157 | Closed | |
| 22 | 2 [b] | 05/18–05/19 | 24 | 358 | 152,843 | Closed | |
| 22 | 3 | 05/22–05/23 | 24 | 392 | 110,911 | Closed | |
| 23 | 4 | 05/25–05/27 | 36 | 408 | 151,393 | Closed | |
| 23 | 5 | 05/29–05/30 | 36 | 406 | 108,891 | Closed | |
| 24 | 6 | 06/01–06/02 | 24 | 333 | 38,546 | Closed | |
| 25 | 7 | 06/05–06/06 | 24 | 395 | 89,062 | Closed | |
| 25 | 8 | 06/08–06/09 | 24 | 370 | 30,430 | Closed | |
| 26 | 9 | 06/12–06/13 | 24 | 336 | 49,086 | Closed | |
| 26 | 10 | 06/15–06/16 | 24 | 246 | 37,589 | Closed | |
| 27 | 11 | 06/19–06/20 | 24 | 171 | 34,228 | 14 | 7,479 |
| 27 | 12 | 06/22–06/23 | 24 | 209 | 29,535 | 13 | 1,708 |
| 28 | 13 | 06/26–06/27 | 24 | 102 | 21,528 | 0 | 0 |
| 28 | 14 | 07/03–07/04 | 24 | 124 | 25,525 | 0 | 0 |
| 29 | 15 | 07/10–07/11 | 24 | 228 | 35,830 | 0 | 0 |
| 29 | 16 | 07/17–07/18 | 24 | 223 | 32,801 | 0 | 0 |
| 30 | 17 | 07/24–07/26 | 48 | 163 | 16,213 | 0 | 0 |
| 30 | 18 | 07/31–08/02 | 48 | 89 | 6,613 | 0 | 0 |
| 31 | 19 | 08/07–08/09 | 48 | 182 | 4,630 | 2 | 9 |
| 31 | 20 | 08/14–08/16 | 48 | 143 | 1,616 | 3 | 2 |
| 32 | 21 | 08/21–08/23 | 48 | 165 | 440 | 10 | 17 |
| 32 | 22 | 08/31–09/02 | 48 | 132 | 42 | 10 | 10 |
| 33 | 23 | 09/11–09/13 | 48 | 134 | 12 | 15 | 0 |
| 34 | 24 | 09/21–09/23 | 48 | 78 | 2 | 8 | 0 |
| 35 [c] | 25 | 09/28–09/30 | 48 | 45 | 0 | 2 | 0 |
| TOTAL | | | | 476 | 1,025,923 | 40 | 9,225 |

[a] Number of permits reporting catches.

[b] From 1900 hours May 18 until 0001 hours August 01 only drift gillnets with a mesh size smaller than 6 in were allowed.

[c] All waters of Little Softuk were closed north of the entrance to Little Softuk at 60 12.9 N. Latitude.

Table 7. Estimated age composition of Copper/Bering River area sockeye salmon in commercial common property drift gillnet catches and upper Copper River subsistence and personal use fish wheel and dip net catches, 1989.

| | | | | Percentage of Catch by Brood Year and Age Group | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1987 | 1986 | | 1985 | | | 1984 | | | 1983 | | 1982 |
| Fishery | District | Sample Size | Total Catch | 0.1 | 0.2 | 1.1 | 0.3 | 1.2 | 2.1 | 0.4 | 1.3 | 2.2 | 1.4 | 2.3 | 2.4 |
| Commercial Common Property | Copper River | 4,684 | 1,025,923 | 0 | 0.6 | 0.1 | 4.7 | 5.5 | 0 | 0.1 | 75.8 | 0.9 | 0.2 | 12.1 | 0.1 |
| | Bering River | 593 | 9,225 | 0 | 2.7 | 0.5 | 0.7 | 17.2 | 0 | 0 | 68.8 | 1.0 | 0 | 9.1 | 0 |
| Subsistence/ Personal Use | Upper Copper River | 1,706 | 80,221 | 0.1 | 0.2 | 1.0 | 0.7 | 31.5 | 0 | 0 | 62.6 | 1.0 | 0.1 | 2.8 | 0 |

Table 8. Estimated age composition of sockeye salmon in escapements to the Copper and Bering River systems, 1989.

| Drainage System | Location | Sample Size | Escapement Estimate | Percentage of Escapement by Brood Year and Age Group | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1987 | 1986 | | 1985 | | | 1984 | | | 1983 | | | 1982 |
| | | | | 0.1 | 0.2 | 1.1 | 0.3 | 1.2 | 2.1 | 1.3 | 2.2 | 3.1 | 1.4 | 2.3 | 3.2 | 3.3 |
| **Copper River** | | | | | | | | | | | | | | | | |
| Upper Copper River | Miles Lake Sonar | [a] | 607,797 | 0.1 | 0.2 | 1.0 | 0.7 | 30.5 | 0.0 | 63.4 | 1.0 | 0.0 | 0.1 | 2.9 | 0.0 | 0.0 |
| Copper River Delta | Eyak Lake – South Beaches | 421 | 1,430 | 0.5 | 5.3 | 1.3 | 15.8 | 23.4 | 0.2 | 47.6 | 1.4 | 0.0 | 0.0 | 4.6 | 0.0 | 0.0 |
| | Eyak Lake – Middle Arm | 549 | 2,500 | 0.0 | 0.9 | 0.9 | 2.7 | 19.5 | 0.5 | 59.4 | 1.8 | 0.0 | 0.0 | 14.2 | 0.0 | 0.0 |
| | Mckinley Lake | 613 | 6,930 | 0.2 | 5.2 | 2.3 | 1.5 | 41.8 | 0.2 | 39.8 | 2.9 | 0.0 | 0.0 | 6.2 | 0.0 | 0.0 |
| | 27 Mile Creek | 523 | 3,020 | 0.0 | 18.7 | 1.7 | 9.9 | 37.9 | 0.2 | 27.2 | 2.3 | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 |
| | 39 Mile Creek | 540 | 7,420 | 0.0 | 1.7 | 0.9 | 3.7 | 19.6 | 0.7 | 54.1 | 5.4 | 0.0 | 0.0 | 13.9 | 0.0 | 0.0 |
| | Pleasant Creek | 417 | 990 | 0.0 | 2.6 | 0.2 | 14.1 | 19.4 | 0.2 | 61.2 | 1.4 | 0.0 | 0.0 | 0.7 | 0.0 | 0.0 |
| | Ragged Point River | 576 | 4,420 | 0.2 | 21.9 | 2.6 | 7.1 | 27.8 | 0.2 | 30.9 | 1.6 | 0.0 | 0.0 | 7.8 | 0.0 | 0.0 |
| | Martin Lake | 566 | 7,850 | 0.0 | 6.5 | 4.2 | 2.8 | 37.6 | 1.1 | 28.8 | 7.1 | 0.0 | 0.0 | 11.8 | 0.0 | 0.0 |
| | Little Martin Lake | 537 | 3,030 | 0.0 | 0.2 | 14.7 | 0.0 | 31.1 | 11.2 | 14.3 | 12.5 | 0.2 | 0.0 | 15.5 | 0.4 | 0.0 |
| | Tokun Lake | 597 | 4,950 | 0.0 | 0.0 | 0.0 | 0.5 | 56.4 | 0.0 | 40.9 | 0.7 | 0.0 | 0.0 | 1.5 | 0.0 | 0.0 |
| | Martin River Slough | 696 | 3,010 | 0.0 | 28.6 | 0.1 | 4.6 | 46.0 | 0.1 | 12.5 | 5.6 | 0.0 | 0.0 | 2.3 | 0.1 | 0.0 |
| | TOTAL | 6,035 | 45,550 | 0.1 | 7.7 | 2.7 | 4.0 | 34.7 | 1.2 | 36.9 | 4.3 | 0.0 | 0.0 | 8.4 | 0.0 | 0.0 |
| **Bering River** | Bering Lake | 590 | 14,330 | 0.0 | 2.0 | 1.4 | 0.8 | 12.0 | 0.0 | 74.2 | 0.8 | 0.0 | 0.0 | 8.5 | 0.0 | 0.2 |
| | Kushtaka Lake | 757 | 1,530 | 0.0 | 0.1 | 0.0 | 0.0 | 7.5 | 0.1 | 41.9 | 4.1 | 0.0 | 0.0 | 46.2 | 0.0 | 0.0 |
| | TOTAL | 1,347 | 15,860 | 0.0 | 1.9 | 1.2 | 0.8 | 11.6 | 0.0 | 71.1 | 1.2 | 0.0 | 0.0 | 12.1 | 0.0 | 0.2 |

[a] Age composition estimated using samples from personal use and subsistence fisheries at Chitina. Passage date at Miles Lake lagged using an estimated swimming speed obtained from mark and recapture data.

Table 9. Copper/Bering River area chinook salmon commercial common property catch and effort by district and fishing period from final fish ticket summaries, 1989.

| | Fishing | | | Copper River | | Bering River | |
|---|---|---|---|---|---|---|---|
| Week | Period | Dates | Hours | Effort[a] | Catch | Effort[a] | Catch |
| 21 | 1[b] | 05/15–05/16 | 24 | 301 | 4,132 | Closed | |
| 22 | 2[b] | 05/18–05/19 | 24 | 358 | 2,893 | Closed | |
| 22 | 3 | 05/22–05/23 | 24 | 392 | 2,852 | Closed | |
| 23 | 4 | 05/25–05/27 | 36 | 408 | 4,976 | Closed | |
| 23 | 5 | 05/29–05/30 | 36 | 406 | 5,100 | Closed | |
| 24 | 6 | 06/01–06/02 | 24 | 333 | 2,329 | Closed | |
| 25 | 7 | 06/05–06/06 | 24 | 395 | 3,029 | Closed | |
| 25 | 8 | 06/08–06/09 | 24 | 370 | 1,650 | Closed | |
| 26 | 9 | 06/12–06/13 | 24 | 336 | 1,697 | Closed | |
| 26 | 10 | 06/15–06/16 | 24 | 246 | 1,061 | Closed | |
| 27 | 11 | 06/19–06/20 | 24 | 171 | 569 | 14 | 29 |
| 27 | 12 | 06/22–06/23 | 24 | 209 | 246 | 13 | 1 |
| 28 | 13 | 06/26–06/27 | 24 | 102 | 150 | 0 | 0 |
| 28 | 14 | 07/03–07/04 | 24 | 124 | 37 | 0 | 0 |
| 29 | 15 | 07/10–07/11 | 24 | 228 | 52 | 0 | 0 |
| 29 | 16 | 07/17–07/18 | 24 | 223 | 68 | 0 | 0 |
| 30 | 17 | 07/24–07/26 | 48 | 163 | 7 | 0 | 0 |
| 30 | 18 | 07/31–08/02 | 48 | 89 | 1 | 0 | 0 |
| 31 | 19 | 08/07–08/09 | 48 | 182 | 9 | 2 | 0 |
| 31 | 20 | 08/14–08/16 | 48 | 143 | 3 | 3 | 0 |
| 32 | 21 | 08/21–08/23 | 48 | 165 | 2 | 10 | 0 |
| 32 | 22 | 08/31–09/02 | 48 | 132 | 0 | 10 | 0 |
| 33 | 23 | 09/11–09/13 | 48 | 134 | 0 | 15 | 0 |
| 34 | 24 | 09/21–09/23 | 48 | 78 | 0 | 8 | 0 |
| 35[c] | 25 | 09/28–09/30 | 48 | 45 | 0 | 2 | 0 |
| TOTAL | | | | 476 | 30,863 | 40 | 30 |

[a] Number of permits reporting catches.
[b] From 1900 hours May 18 until 0001 hours August 01 only drift gill nets with a mesh size smaller than 6 in were allowed.
[c] All waters of Little Softuk were closed north of the entrance to Little Softuk at 60 12.9 N. Latitude.

Table 10. Estimated age composition of Copper River area chinook salmon in commercial common property drift gillnet catches, rod & reel sport catches, and escapements, 1989.

| Fishery Element | Area | Location | Sample Size | Estimated Catch or Escapement | Percentage by Brood Year and Age Group | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 1986 | 1985 | | 1984 | | | 1983 | | 1982 | |
| | | | | | 1.1 | 1.2 | 2.1 | 0.4 | 1.3 | 2.2 | 1.4 | 2.3 | 1.5 | 2.4 |
| Commercial Common Property | Copper River District | Stat Area 212 | 1,545 | 30,863 | 0.1 | 2.6 | 0.2 | 0.0 | 24.5 | 0.2 | 61.7 | 2.3 | 2.5 | 5.9 |
| Sport Catch | Upper Copper River | Gulkana River | 176 | 9,778 | 0.0 | 1.7 | 0.0 | 0.0 | 26.7 | 0.0 | 69.3 | 2.3 | 0.0 | 0.0 |
| | | Klutina River | 63 | 652 | 0.0 | 1.6 | 0.0 | 0.0 | 27.0 | 0.0 | 66.7 | 0.0 | 4.8 | 0.0 |
| Escapement | Upper Copper River | Klutina River | 138 | [a] | 0.0 | 1.4 | 0.0 | 0.0 | 41.3 | 0.0 | 55.8 | 1.4 | 0.0 | 0.0 |

[a] Aerial survey peak counts totaled 4,367 fish from all surveyed streams of the upper Copper River drainage. Of these, 262 fish were observed in the Klutina River drainage.

Table 11. Copper/Bering River Area coho salmon commercial common property catch and effort by district and fishing period from fish ticket summaries, 1989.

| | Fishing | | | Copper River | | Bering River | |
|---|---|---|---|---|---|---|---|
| Week | Period | Dates | Hours | Effort[a] | Catch | Effort[a] | Catch |
| 21 | 1[b] | 05/15–05/16 | 24 | 301 | 0 | Closed | |
| 22 | 2[b] | 05/18–05/19 | 24 | 358 | 0 | Closed | |
| 22 | 3 | 05/22–05/23 | 24 | 392 | 0 | Closed | |
| 23 | 4 | 05/25–05/27 | 36 | 408 | 0 | Closed | |
| 23 | 5 | 05/29–05/30 | 36 | 406 | 0 | Closed | |
| 24 | 6 | 06/01–06/02 | 24 | 333 | 0 | Closed | |
| 25 | 7 | 06/05–06/06 | 24 | 395 | 0 | Closed | |
| 25 | 8 | 06/08–06/09 | 24 | 370 | 1 | Closed | |
| 26 | 9 | 06/12–06/13 | 24 | 336 | 33 | Closed | |
| 26 | 10 | 06/15–06/16 | 24 | 246 | 65 | Closed | |
| 27 | 11 | 06/19–06/20 | 24 | 171 | 106 | 14 | 0 |
| 27 | 12 | 06/22–06/23 | 24 | 209 | 97 | 13 | 0 |
| 28 | 13 | 06/26–06/27 | 24 | 102 | 52 | 0 | 0 |
| 28 | 14 | 07/03–07/04 | 24 | 124 | 26 | 0 | 0 |
| 29 | 15 | 07/10–07/11 | 24 | 228 | 822 | 0 | 0 |
| 29 | 16 | 07/17–07/18 | 24 | 223 | 984 | 0 | 0 |
| 30 | 17 | 07/24–07/26 | 48 | 163 | 445 | 0 | 0 |
| 30 | 18 | 07/31–08/02 | 48 | 89 | 2,313 | 0 | 0 |
| 31 | 19 | 08/07–08/09 | 48 | 182 | 11,227 | 2 | 17 |
| 31 | 20 | 08/14–08/16 | 48 | 143 | 23,614 | 3 | 67 |
| 32 | 21 | 08/21–08/23 | 48 | 165 | 28,756 | 10 | 2,728 |
| 32 | 22 | 08/31–09/02 | 48 | 132 | 42,357 | 10 | 5,540 |
| 33 | 23 | 09/11–09/13 | 48 | 134 | 59,290 | 15 | 14,082 |
| 34 | 24 | 09/21–09/23 | 48 | 78 | 19,350 | 8 | 4,224 |
| 35[c] | 25 | 09/28–09/30 | 48 | 45 | 4,916 | 2 | 294 |
| TOTAL | | | | 476 | 194,454 | 40 | 26,952 |

[a] Number of permits reporting catches.

[b] From 1900 hours May 18 until 0001 hours August 01 only drift gill nets with a mesh size smaller than 6 in were allowed.

[c] All waters of Little Softuk were closed north of the entrance to Little Softuk at 60 12.9 N. Latitude.

Table 12. Estimated age composition of Copper/Bering River area coho salmon in commercial common property drift gillnet catches, 1989.

| District | Sample Size | Commercial Common Property Catch | Percentage of Catch by Brood Year and Age Group | | | |
|---|---|---|---|---|---|---|
| | | | 1986 | 1985 | 1984 | |
| | | | 1.1 | 2.1 | 2.2 | 3.1 |
| Copper River | 1,205 | 194,454 | 51.8 | 47.5 | 0.0 | 0.7 |
| Bering River | 722 | 26,952 | 39.4 | 59.8 | 0.1 | 0.7 |

Table 13. Prince William Sound sockeye salmon weekly commercial common property catch and effort by district and gear type from fish ticket summaries, 1989.

| | | Gillnet Fisheries | | | | | | Purse Seine Fisheries | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Coghill Drift Gillnet | | | Unakwik Drift Gill Net | | | General Purse Seine | | | |
| Week | Dates | Hours | Effort [a] | Catch | Hours | Effort [a] | Catch | Hours | Effort [a] | Catch | Total PWS Catch |
| 25 | 6/18–6/24 [b] | 60 | 193 | 32,845 | 60 | 8 | 7,212 | | Closed | | 40,057 |
| 26 | 6/25–7/01 | 48 | 272 | 43,741 | 60 | 18 | 10,785 | | 155 | 1,278 | 55,804 |
| 27 | 7/02–7/08 | 12 | 207 | 25,637 | 12 | 13 | 3,202 | | 188 | 1,321 | 30,160 |
| 28 | 7/09–7/15 | 168 | 0 | 0 | 0 | 0 | 0 | | 207 | 1,077 | 1,077 |
| 29 | 7/16–7/22 | 0 | Closed | Closed | 0 | Closed | Closed | | Closed | Closed | Closed |
| 30 | 7/23–7/29 [c] | 76 | 206 | 2,803 | 0 | 0 | 0 | | 220 | 4,238 | 7,041 |
| 31 | 7/31–8/05 [d,e] | 0 | 0 | 0 | 0 | 0 | 0 | | 83 | 158 | 158 |
| 32 | 8/06–8/12 [f] | 0 | 0 | 0 | 12 | 57 | 181 | | 214 | 311 | 492 |
| 33 | 8/13–8/19 | 24 | 153 | 380 | 24 | 48 | 32 | | 219 | 842 | 1,254 |
| 34 | 8/20–8/26 | 59 | 130 | 577 | 0 | 0 | 0 | | 197 | 622 | 1,199 |
| 35 | 8/27–9/02 | 81 | 94 | 73 | 0 | 0 | 0 | | 40 | 4 | 77 |
| 36 | 9/03–9/09 | 84 | 53 | 45 | 0 | 0 | 0 | | 1 | 0 | 45 |
| 37 | 9/10–9/16 | 84 | 27 | 13 | 0 | 0 | 0 | | 0 | 0 | 13 |
| 38 | 9/17–9/23 | 84 | 8 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 |
| 39 | 9/24–9/30 | 84 | 1 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 |
| | Total | | 353 | 106,114 | | 98 | 21,412 | | 243 | 9,851 | 137,377 |

[a] Number of permits reporting catches.

[b] The Esther Subdistrict and all waters of the Coghill District south of a line extending from Esther Rocks to Point Pigot were closed.

[c] The Esther Subdistrict and the waters of Quillion and Lake Bays were open, except that the waters inside of a line of bouys off the oil boom in Lake Bay were closed. On July 27, the Coghill District was open for 36 h, except for all waters of the Coghill District north of a line extending from Esther Rocks to Point Pigot and Esther Passage were closed.

[d] The entire Coghill District was open, except that the Esther Hatchery Special Harvest Area was closed inside of the oil booms located in Lake Bay.

[e] The entire Coghill District was open except at the Esther Hatchery waters inside a buoyed line approximately 50 ft off the oil boom in Lake Bay were closed.

[f] The Esther Subdistrict and the waters of Wells Passage south of a line from Esther Rocks to Point Pigot were open. The Esther Hatchery Special Harvest Area was closed inside of a buoyed line approximately 50 ft outside the oil boom. This was effective until September 30.

Table 14. Estimated age composition of sockeye salmon in Prince William Sound commercial common property drift gillnet catches, 1989.

| Fishery/District | Statistical Area | Sample Size | Commercial Common Property Catch | Percentage of Catch by Brood Year and Age Group | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 1985 | 1984 | | 1983 | | 1982 |
| | | | | 1.2 | 1.3 | 2.2 | 1.4 | 2.3 | 2.4 |
| Unakwik | 229 | 427 | 21,412 | 0.7 | 91.9 | 0.9 | 0.7 | 6.3 | 0.2 |
| Coghill | 223 | 1,127 | 106,114 | 0.8 | 94.8 | 0.7 | 0.5 | 3.2 | 0 |

Table 15. Estimated age composition of sockeye salmon in sampled escapements to Prince William Sound, 1989.

| Location | Sample Size | Estimated Escapement | Percentage by Brood Year and Age Group | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 1986 | | 1985 | | | 1984 | | | 1983 | | 1982 |
| | | | 0.2 | 1.1 | 0.3 | 1.2 | 2.1 | 0.4 | 1.3 | 2.2 | 1.4 | 2.3 | 2.4 |
| Coghill | 1,808 | 37,751 | 0.0 | 0.1 | 0.1 | 2.1 | 0.5 | 0.0 | 82.4 | 3.7 | 0.5 | 10.1 | 0.7 |
| Eshamy | 1,706 | 58,127 | 0.0 | 1.0 | 0.0 | 78.8 | 0.0 | 0.0 | 6.5 | 12.8 | 0.0 | 0.9 | 0.0 |
| Jackpot | 363 | 2,983 | 0.3 | 0.0 | 0.8 | 5.2 | 0.0 | 0.3 | 82.6 | 3.6 | 0.3 | 6.9 | 0.0 |

Table 16. Prince William Sound weekly coho salmon commercial catches by district and gear type from fish ticket summaries, 1989.

| Week | | Drift Gillnet | | Purse Seine | | | | | | | | Total PWS Catch |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | Dates | Unakwik | Coghill | Eastern | Northern | Unakwik | Coghill | Northwestern | Southwestern | Montague | Southeastern | |
| 25 | 6/18–6/24 | 0 | 15 | Closed | Closed | Closed | Closed | Closed | Closed | Closed | Closed | 15 |
| 26 | 6/25–7/01 | 0 | 6 | 15 | 2 | Closed | Closed | Closed | Closed | Closed | Closed | 23 |
| 27 | 7/02–7/08 | 7 | 183 | 52 | 36 | Closed | Closed | Closed | Closed | Closed | Closed | 278 |
| 28 | 7/09–7/15 | Closed | Closed | 42 | 0 | Closed | Closed | Closed | Closed | Closed | 0 | 42 |
| 29 | 7/16–7/22 | Closed | Closed | Closed | Closed | Closed | Closed | Closed | Closed | Closed | Closed | 0 |
| 30 | 7/23–7/29 | Closed | 1,862 | Closed | 497 | Closed | 613 | 78 | Closed | Closed | 15 | 3,065 |
| 31 | 7/31–8/05 | Closed | Closed | Closed | 15 | Closed | Closed | Closed | Closed | Closed | Closed | 15 |
| 32 | 8/06–8/12 | 17 | Closed | 2,576 | 128 | Closed | Closed | Closed | Closed | Closed | 307 | 3,028 |
| 33 | 8/13–8/19 | 3 | 5,276 | 5,768 | 4,529 | Closed | 5,219 | 24 | Closed | Closed | 0 | 20,819 |
| 34 | 8/20–8/26 | Closed | 17,952 | 12,342 | 1,837 | Closed | 25,384 | 1,582 | Closed | Closed | Closed | 59,097 |
| 35 | 8/27–9/02 | Closed | 19,469 | 99 | Closed | Closed | 6,848 | Closed | Closed | Closed | Closed | 26,416 |
| 36 | 9/03–9/09 | Closed | 21,758 | Closed | Closed | Closed | 1,420 | Closed | Closed | Closed | Closed | 23,178 |
| 37 | 9/10–9/16 | Closed | 13424 | Closed | Closed | Closed | Closed | Closed | Closed | Closed | Closed | 13,424 |
| 38 | 9/17–9/23 | Closed | 692 | Closed | Closed | Closed | Closed | Closed | Closed | Closed | Closed | 692 |
| 39 | 9/24–9/30 | Closed | 100 | Closed | Closed | Closed | Closed | Closed | Closed | Closed | Closed | 100 |
| | Total | 27 | 80,737 | 20,894 | 7,044 | 0 | 39,484 | 1,684 | 0 | 0 | 322 | 150,192 |

Table 17. Estimated age composition of coho salmon in Prince William Sound commercial common property drift gillnet and purse seine catches, 1989.

| District | Stat Area | Sample Size | Commercial Common Property Catch | Brood Year and Age Group | | |
|---|---|---|---|---|---|---|
| | | | | 1986 | 1985 | 1984 |
| | | | | 1.1 | 2.1 | 3.1 |
| Coghill | 223 | 838 | 120,221 | 92.2 | 7.4 | 0.4 |

Table 18. Prince William Sound chum salmon weekly commercial common property catches by district and gear type from fish ticket summaries, 1989.

| Week | | Drift Gillnet | | Purse Seine | | | | | | | | Total PWS Catch |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | Dates | Unakwik | Coghill | Eastern | Northern | Unakwik | Coghill | Northwestern | Southwestern | Montague | Southeastern | |
| 25 | 6/18–6/24 | 64 | 46,704 | Closed | Closed | Closed | Closed | Closed | Closed | Closed | Closed | 46,768 |
| 26 | 6/25–7/01 | 205 | 40,837 | 42,297 | 60,965 | Closed | Closed | Closed | Closed | Closed | Closed | 144,304 |
| 27 | 7/02–7/08 | 67 | 6,040 | 12,980 | 18,051 | Closed | Closed | Closed | Closed | Closed | Closed | 37,138 |
| 28 | 7/09–7/15 | Closed | Closed | 15,627 | 4,594 | Closed | Closed | Closed | Closed | Closed | 338 | 20,559 |
| 29 | 7/16–7/22 | Closed | Closed | Closed | Closed | Closed | Closed | Closed | Closed | Closed | Closed | 0 |
| 30 | 7/23–7/29 | Closed | 43,211 | Closed | 45,853 | Closed | 23,396 | 6,134 | Closed | Closed | 410 | 119,004 |
| 31 | 7/31–8/05 | Closed | Closed | Closed | 1,452 | Closed | Closed | Closed | Closed | Closed | Closed | 1,452 |
| 32 | 8/06–8/12 | 37 | Closed | 95,258 | 4,108 | Closed | Closed | Closed | Closed | Closed | 17 | 99,420 |
| 33 | 8/13–8/19 | 31 | 27,495 | 85,715 | 51,345 | Closed | 71,626 | 274 | Closed | Closed | 0 | 236,486 |
| 34 | 8/20–8/26 | Closed | 19,541 | 75,951 | 6,787 | Closed | 28,336 | 1,454 | Closed | Closed | Closed | 132,069 |
| 35 | 8/27–9/02 | Closed | 5,746 | 13,314 | Closed | Closed | 977 | Closed | Closed | Closed | Closed | 20,037 |
| 36 | 9/03–9/09 | Closed | 3,942 | Closed | Closed | Closed | 304 | Closed | Closed | Closed | Closed | 4,246 |
| 37 | 9/10–9/16 | Closed | 988 | Closed | Closed | Closed | Closed | Closed | Closed | Closed | Closed | 988 |
| 38 | 9/17–9/23 | Closed | 80 | Closed | Closed | Closed | Closed | Closed | Closed | Closed | Closed | 80 |
| 39 | 9/24–9/30 | Closed | 0 | Closed | Closed | Closed | Closed | Closed | Closed | Closed | Closed | 0 |
| | Total | 404 | 194,584 | 341,142 | 193,155 | 0 | 124,639 | 7,862 | 0 | 0 | 765 | 862,551 |

Table 19. Estimated age composition of chum salmon in Prince William Sound commercial common property purse seine and gillnet catches, 1989.

| Gear Type or Fishery | District | Statistical Area | Sample Size | Commercial Common Property Catch | Percentage of Catch by Brood Year and Age Group | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 1987 | 1986 | 1985 | 1984 | 1983 | 1982 |
| | | | | | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 |
| Purse Seine | Eastern | 221 | 1,240 | 341,142 | 0.0 | 0.5 | 85.4 | 11.5 | 2.7 | 0.0 |
| | Northern | 222 | 1,194 | 193,155 | 0.0 | 1.0 | 74.1 | 20.3 | 4.4 | 0.2 |
| | Eshamy [a] | 225 | 1,145 | 102,811 | 0.1 | 3.7 | 41.0 | 51.7 | 3.6 | 0.0 |
| | Southeastern | 228 | 136 | 765 | 0.0 | 2.2 | 83.1 | 11.8 | 2.9 | 0.0 |
| | Total | | 3,715 | 637,873 | 0.0 | 1.2 | 74.8 | 20.6 | 3.4 | 0.1 |
| Drift Gillnet | Coghill [b] | 223 | 779 | 319,223 | 0.0 | 1.2 | 78.9 | 17.1 | 2.7 | 0.0 |
| Total | | | 4,494 | 957,096 | 0.0 | 1.2 | 76.2 | 19.5 | 3.1 | 0.0 |

[a] Main Bay Hatchery cost recovery harvest.
[b] Includes some catches from commercial purse seines.

Table 20. Estimated hatchery contributions of chum salmon to the commercial common property harvests, hatchery cost recovery harvests, hatchery brood stock escapements, and chum salmon total return to Prince William Sound, 1989.

| Hatchery | Commercial Common Property Catch | Cost Recovery Sales Harvest [a] | Brood Stock Escapement [b] | Total Run |
|---|---|---|---|---|
| Solomon Gulch | 25,000 | 1,658 | 8,000 | 34,658 |
| Cannery Creek | 0 | 0 | 0 | 0 |
| Wallace H. Noerenberg | 159,611 | 17,429 | 64,948 | 241,988 |
| Armin F. Koernig | 0 | 9,334 | 1,565 | 10,899 |
| Main Bay | 15,000 [c] | 102,941 | 0 | 117,941 |
| Total | 214,611 | 131,362 | 74,513 | 405,486 |

[a] Does not include brood stock carcass sales. Harvest data presented in this table were obtained from PWSAC summary reports and may not match harvest data obtained from fish tickets presented elsewhere.

[b] Includes holding mortalities, excess fish, and carcasses from fish used for brood stock that are also sold for cost recovery. Harvest figures presented here may be less than sales harvest totals derived from fish ticket summaries presented elsewhere.

[c] Preliminary estimates based on recoveries of coded wire tags from hatchery released fish.

Table 21. Prince William Sound pink salmon weekly commercial common property catches by district and gear type from final fish ticket summaries, 1989.

| Week | | Drift Gillnet | | Purse Seine | | | | | | | | Total PWS Catch |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | Dates | Unakwik | Coghill | Eastern | Northern | Unakwik | Coghill | Northwestern | Southwestern | Montague | Southeastern | |
| 25 | 6/18–6/24 | 0 | 31 | Closed | Closed | Closed | Closed | Closed | Closed | Closed | Closed | 31 |
| 26 | 6/25–7/01 | 2 | 529 | 427,200 | 33,937 | Closed | Closed | Closed | Closed | Closed | Closed | 461,668 |
| 27 | 7/02–7/08 | 17 | 1,001 | 448,378 | 24,514 | Closed | Closed | Closed | Closed | Closed | Closed | 473,910 |
| 28 | 7/09–7/15 | Closed | Closed | 1,754,260 | 3,940 | Closed | Closed | Closed | Closed | Closed | 3,722 | 1,761,922 |
| 29 | 7/16–7/22 | Closed | Closed | Closed | Closed | Closed | Closed | Closed | Closed | Closed | Closed | 0 |
| 30 | 7/23–7/29 | Closed | 219,551 | Closed | 1,512,432 | Closed | 336,344 | 60,909 | Closed | Closed | 44,326 | 2,173,562 |
| 31 | 7/31–8/05 | Closed | Closed | Closed | 120,093 | Closed | Closed | Closed | Closed | Closed | Closed | 120,093 |
| 32 | 8/06–8/12 | 30,954 | Closed | 344,030 | 2,180,310 | Closed | Closed | Closed | Closed | Closed | 19,173 | 2,574,467 |
| 33 | 8/13–8/19 | 10,847 | 182,630 | 133,201 | 2,132,522 | Closed | 1,667,698 | 13,343 | Closed | Closed | 5,956 | 4,146,197 |
| 34 | 8/20–8/26 | Closed | 158,290 | 43,546 | 414,522 | Closed | 1,207,462 | 107,313 | Closed | Closed | Closed | 1,931,133 |
| 35 | 8/27–9/02 | Closed | 41,247 | 481 | Closed | Closed | 66,270 | Closed | Closed | Closed | Closed | 107,998 |
| 36 | 9/03–9/09 | Closed | 20,434 | Closed | Closed | Closed | 19,191 | Closed | Closed | Closed | Closed | 39,625 |
| 37 | 9/10–9/16 | Closed | 4809 | Closed | Closed | Closed | Closed | Closed | Closed | Closed | Closed | 4,809 |
| 38 | 9/17–9/23 | Closed | 0 | Closed | Closed | Closed | Closed | Closed | Closed | Closed | Closed | 0 |
| 39 | 9/24–9/30 | Closed | 0 | Closed | Closed | Closed | Closed | Closed | Closed | Closed | Closed | 0 |
| | Total | 41,820 | 628,522 | 3,151,096 | 6,422,270 | 0 | 3,296,965 | 181,565 | 0 | 0 | 73,177 | 13,795,415 |

Table 22. Estimated hatchery contributions of pink salmon to the commercial common property harvests, hatchery cost recovery harvests, hatchery brood stock escapements, and pink salmon total return to Prince William Sound, 1989.

| Hatchery | 1988 Release | Commercial Common Property Catch [a] | Cost Recovery Sales Harvest [b] | Brood Stock Escapement [c] | Total Return |
|---|---|---|---|---|---|
| Solomon Gulch | 130,900,000 | 2,500,000 | 667,814 | 210,947 | 3,378,761 |
| Cannery Creek | 95,400,000 | 6,013,955 | 633,150 | 299,530 | 6,946,635 |
| Wallace H. Noerenberg | 195,300,000 | 3,854,052 | 2,778,696 | 497,727 | 7,130,475 |
| Armin F. Koernig | 110,900,000 | 0 | 3,716,053 | 221,873 | 3,937,926 |
| Main Bay | 0 | 0 | 0 | 0 | 0 |
| Total | 532,500,000 | 12,368,007 | 7,795,713 | 1,230,077 | 21,393,797 |

[a] Preliminary estimates based on recoveries of coded wire tags from hatchery released fish.
[b] Does not include brood stock carcass sales. Harvest data presented in this table were obtained from PWSAC summary reports and may not match harvest data obtained from fish tickets presented elsewhere.
[c] Includes holding mortalities, excess fish, and carcasses from fish used for brood stock that are also sold for cost recovery. Harvest figures presented here may be less than sales harvest totals derived from fish ticket summaries presented elsewhere.

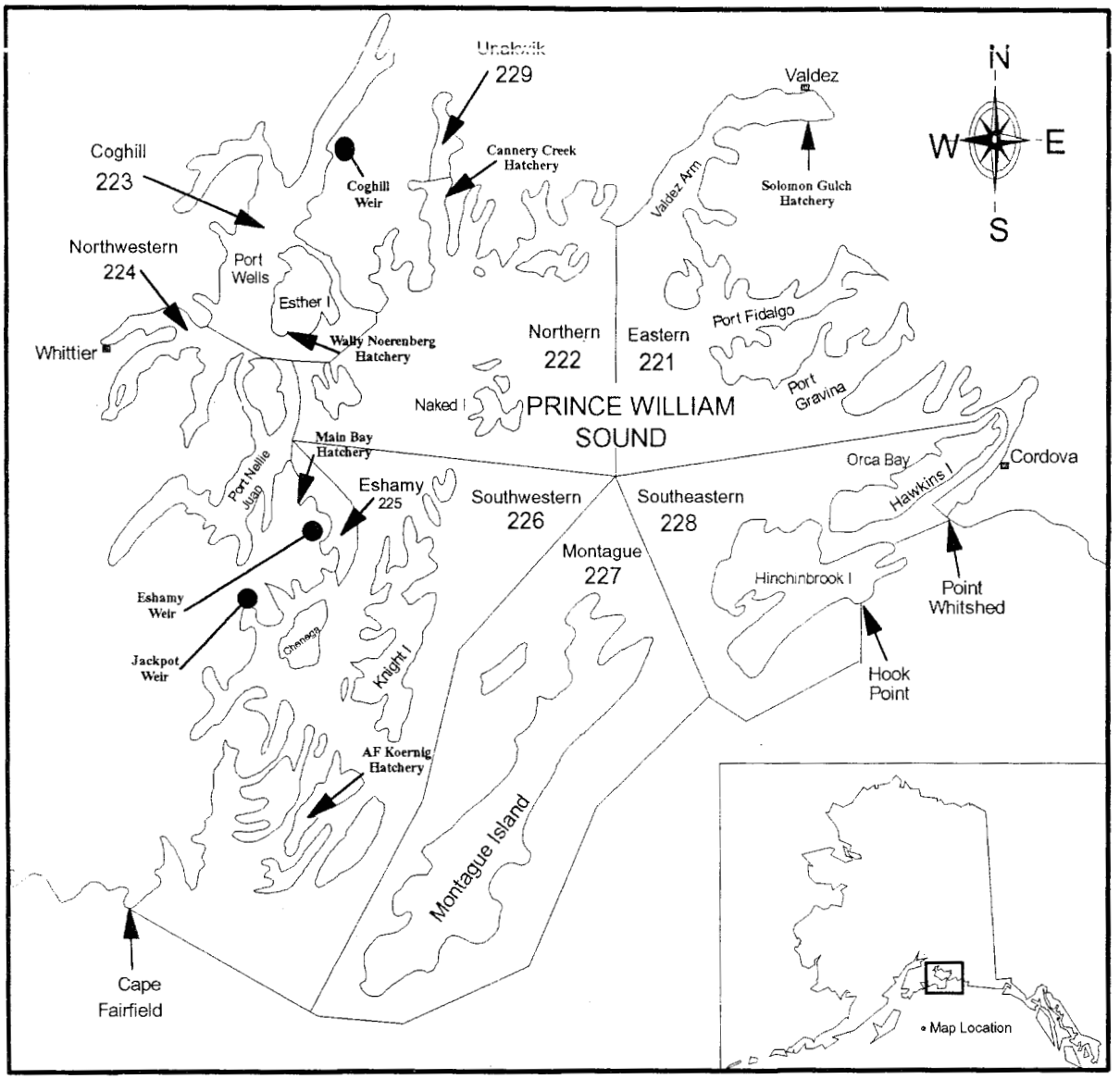



Figure 1. Prince William Sound area showing commercial fishing districts, hatcheries, and weir locations.

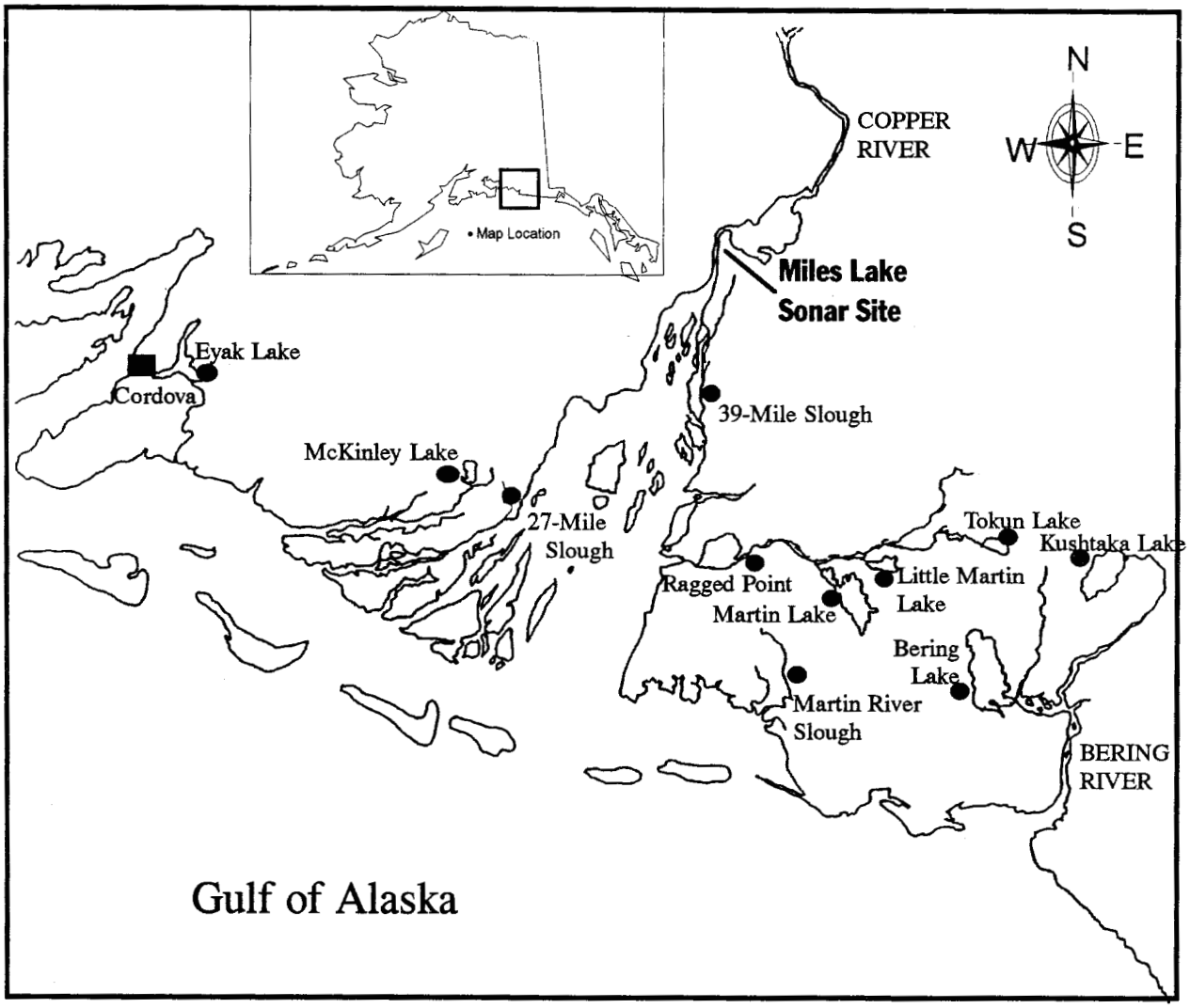



Figure 2. The Copper/Bering River area and the major coastal spawning areas which contribute to the commercial salmon fisheries.

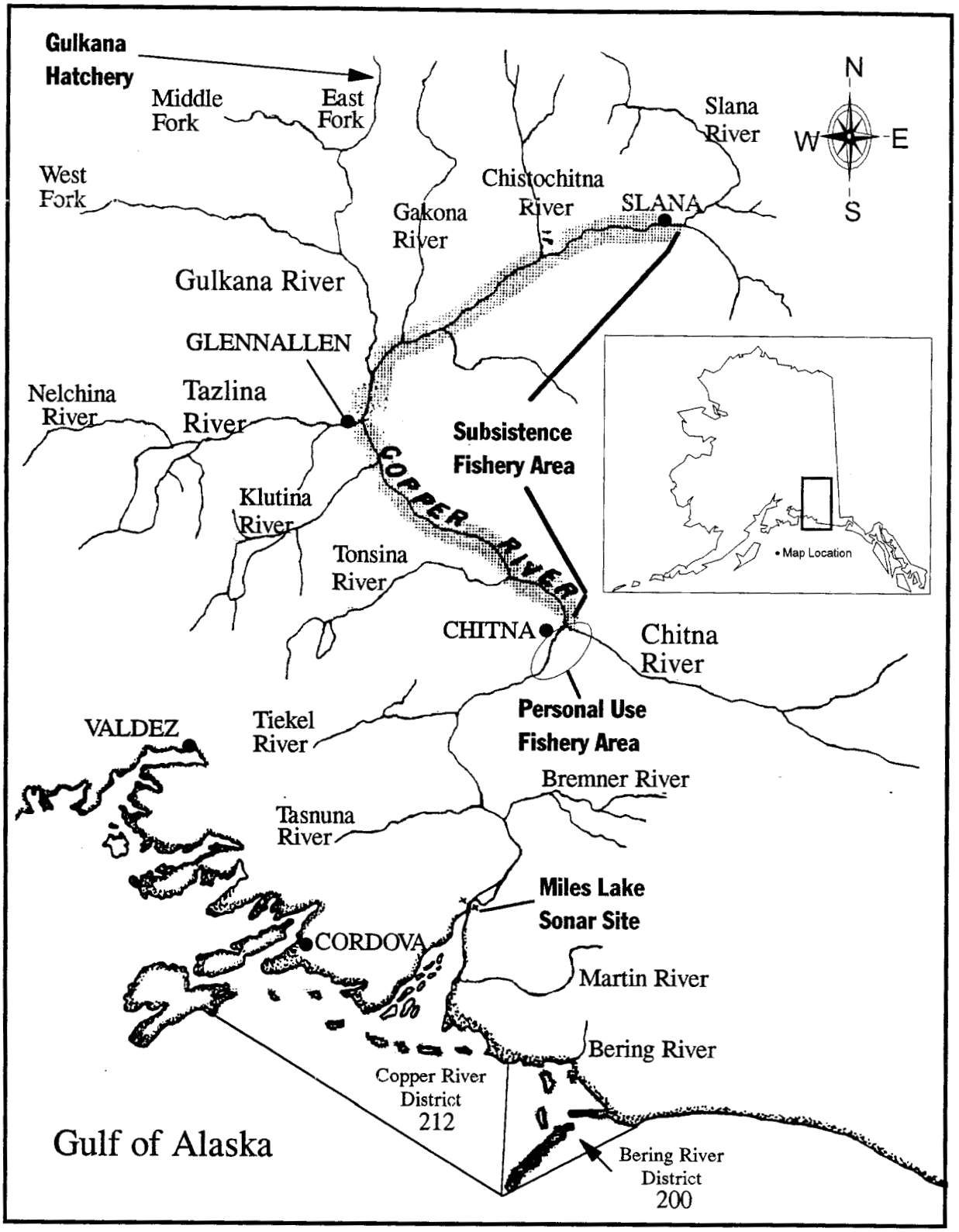



Figure 3. The location of the personal use fishery near Chitna and the subsistence fishery which extends from Chitna to Slana along the upper Copper River.

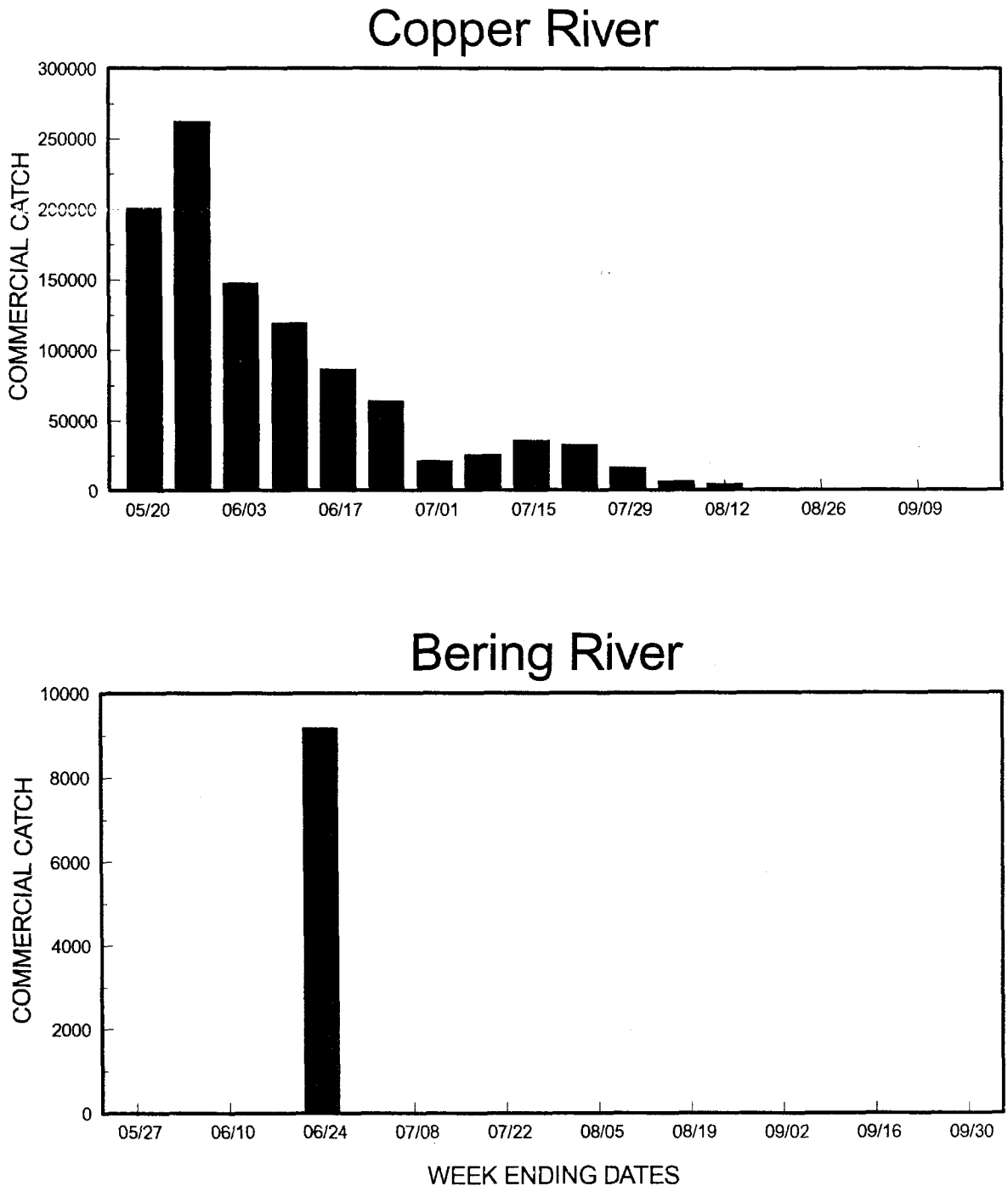



Figure 4. Weekly sockeye salmon commercial common property catches from the drift gillnet fisheries of the Copper River and Bering River Districts, 1989

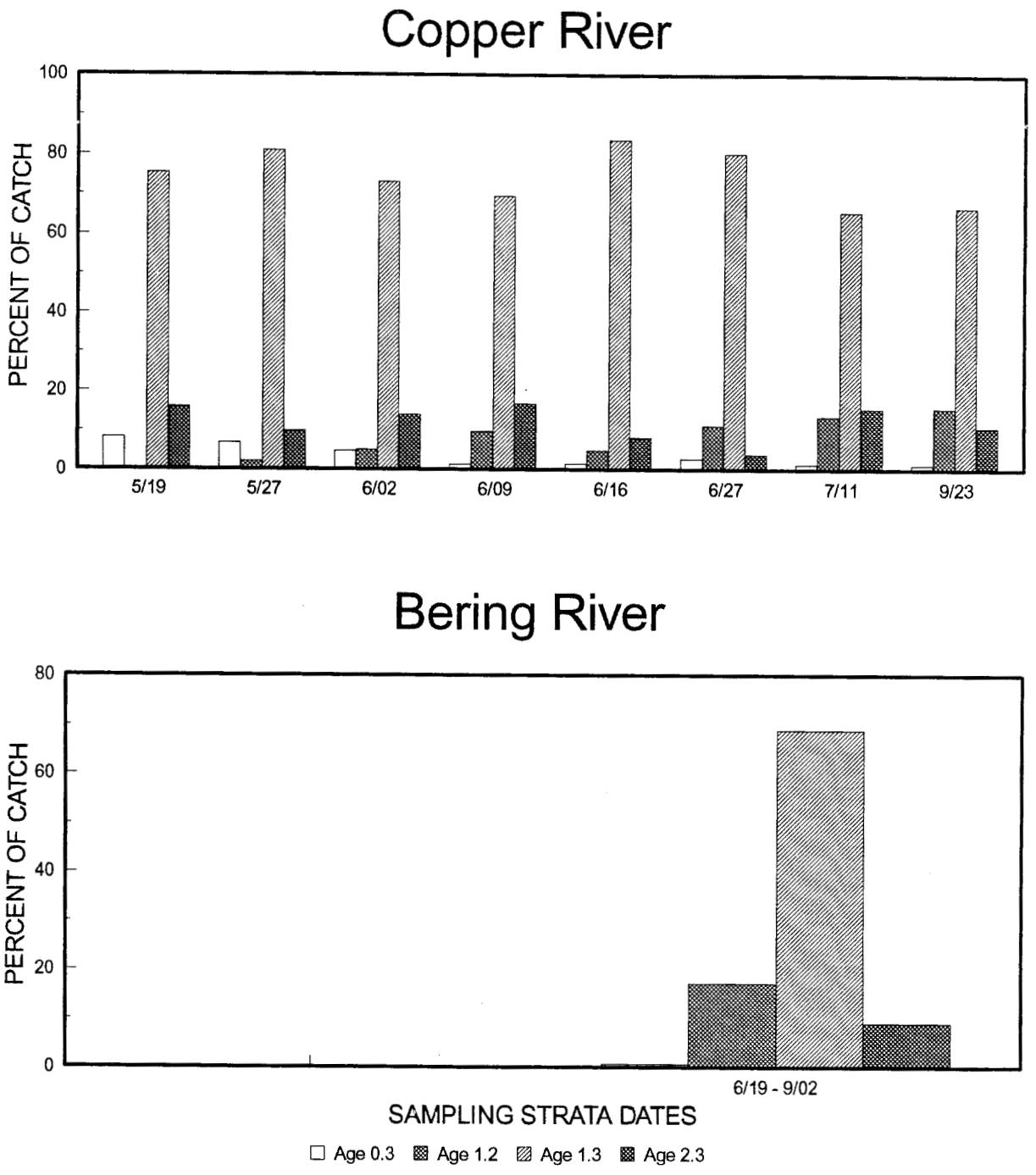



Figure 5. Temporally stratified age composition of sockeye salmon from the commercial common property drift gillnet fisheries in the Copper River and Bering River Districts, 1989

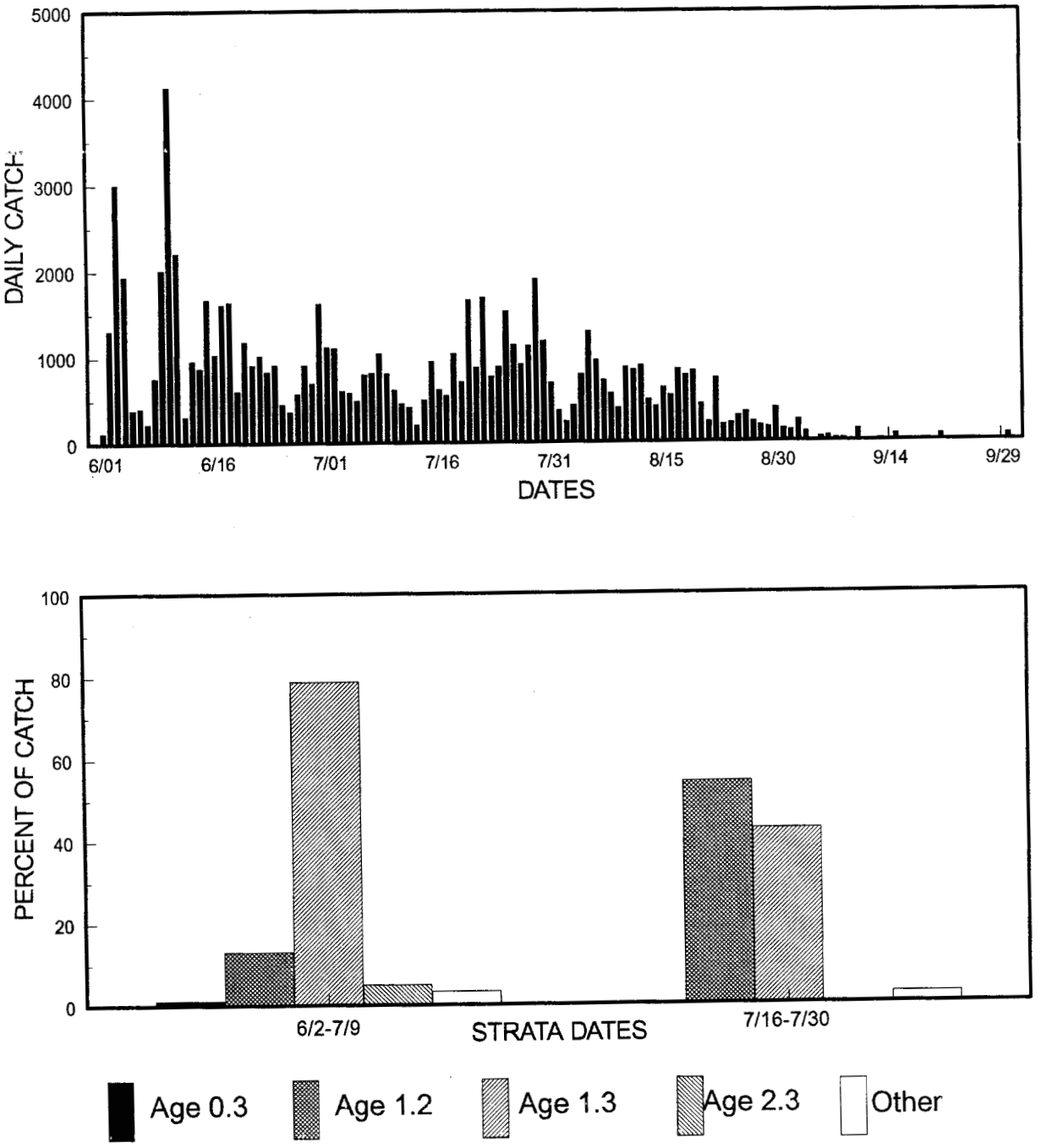



Figure 6. Daily sockeye salmon catch in the combined subsistence and personal use fisheries and the temporally stratified age composition of those catches, upper Copper River, 1989

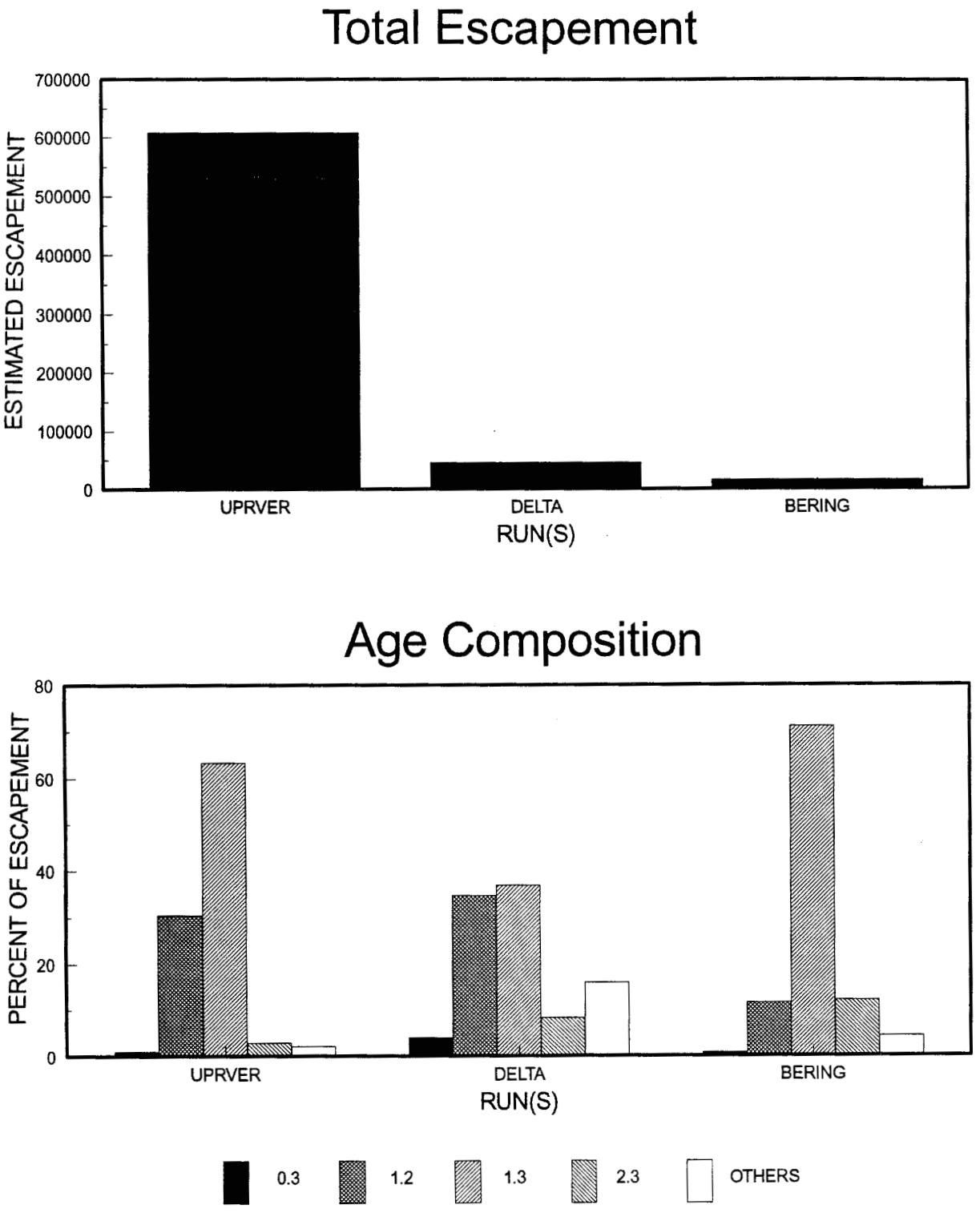
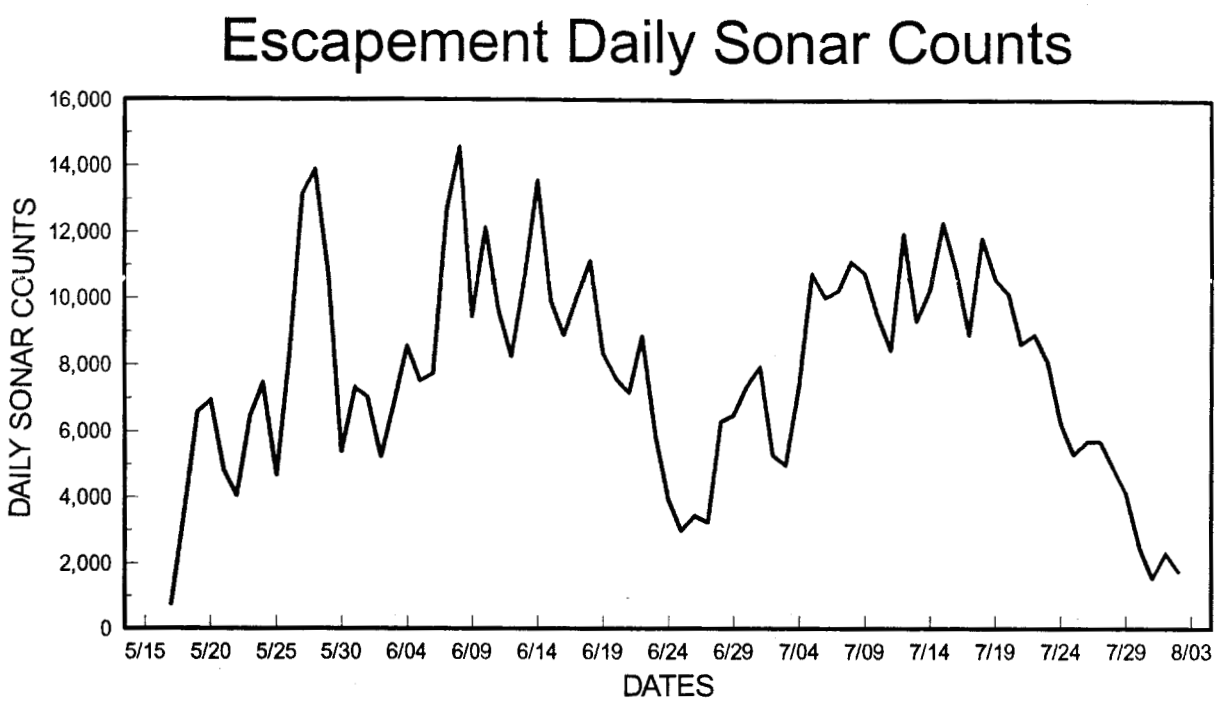



Figure 7. Sockeye salmon escapement to the upper Copper River, Copper River Delta, and Bering River and the estimated age composition of those escapements, 1989



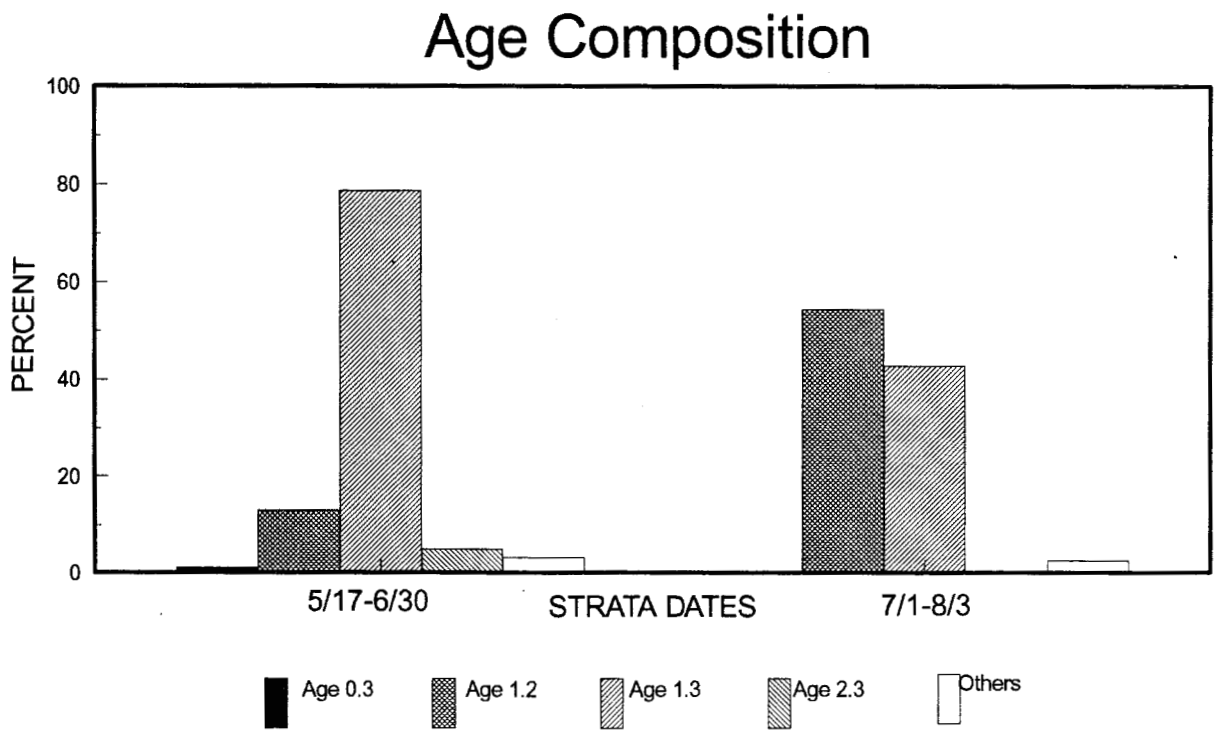




Figure 8. Daily counts of the sockeye salmon escapement to the upper Copper River past the Miles Lake sonar project site and the temporally stratified age composition of that escapement, 1989

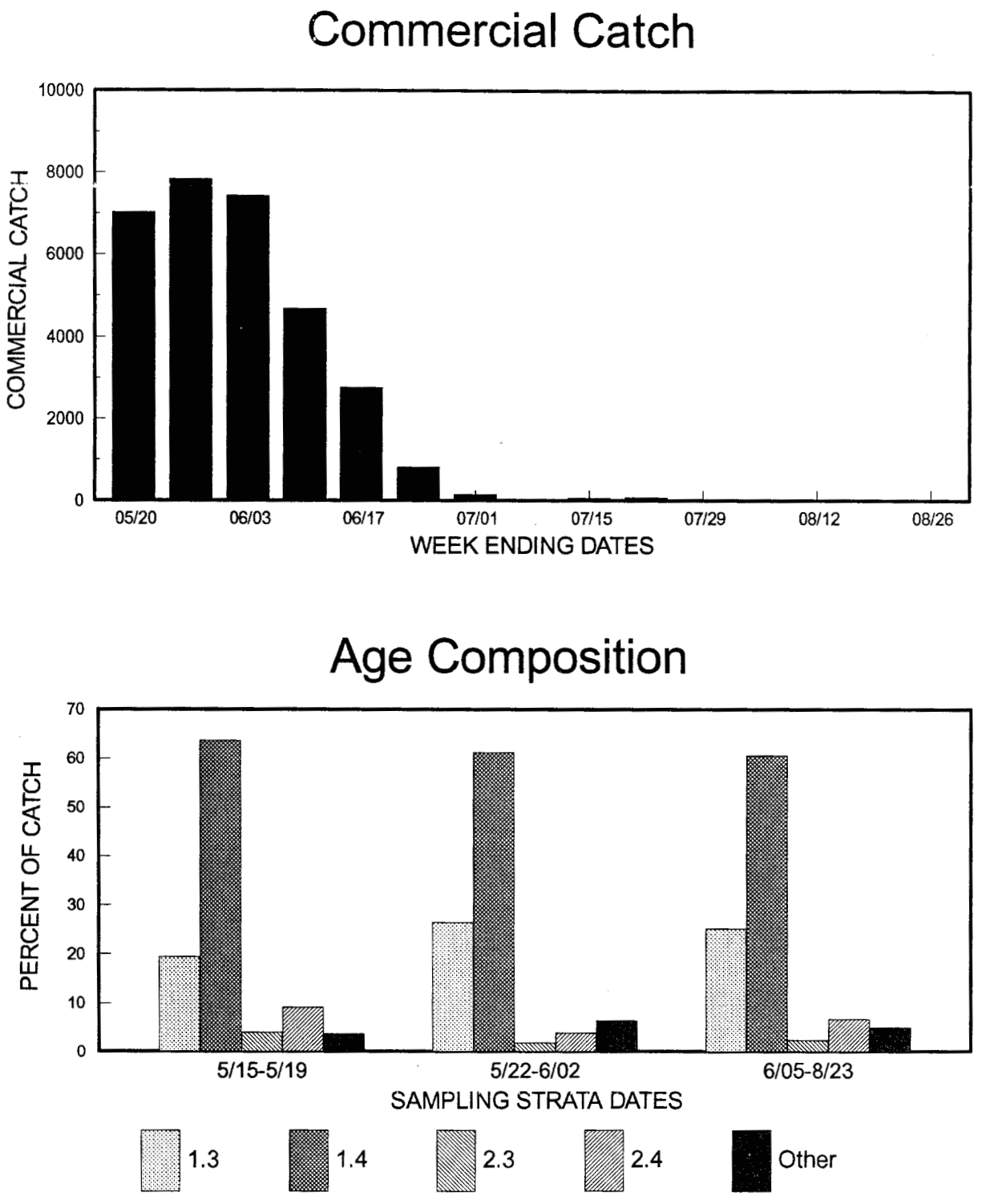



Figure 9. Weekly chinook salmon catches from the Copper River District commercial common property drift gillnet fishery and the temporally stratified age composition of those catches, 1989

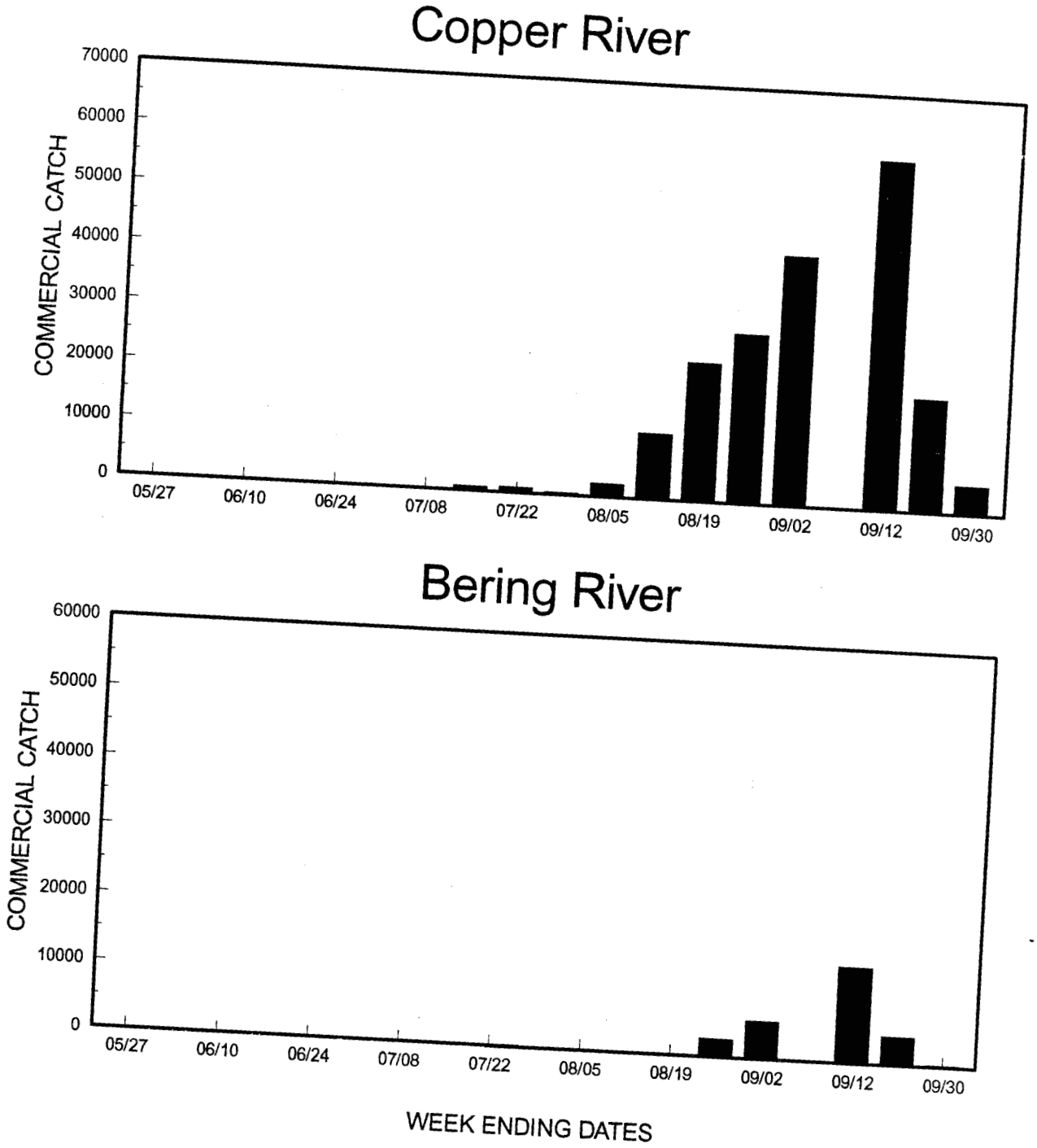



Figure 10. Weekly coho salmon catches from the Copper River District and Bering River District commercial common property drift gillnet fisheries, 1989

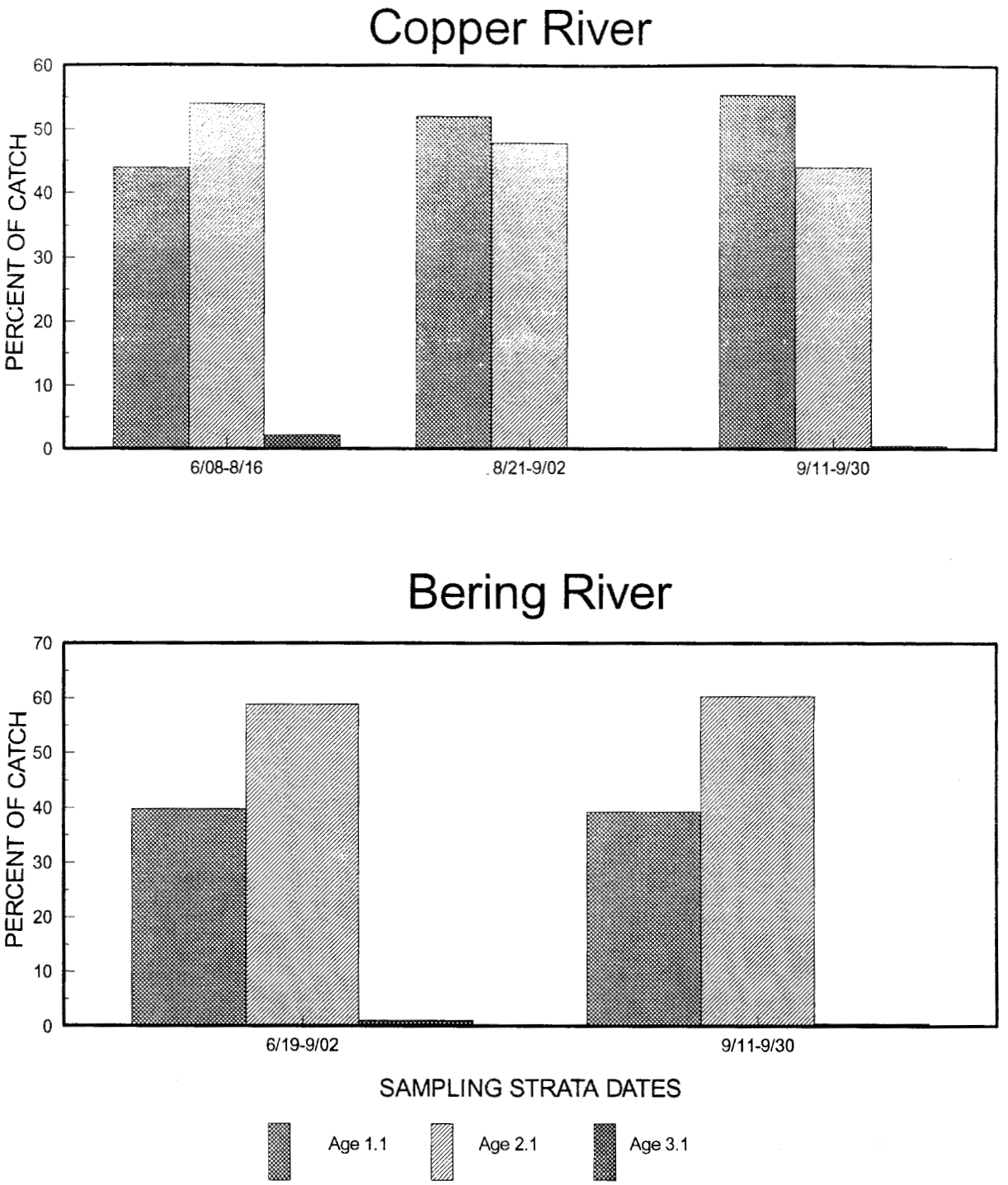



Figure 11. Temporally stratified age composition of coho salmon from the commercial common property drift gillnet fisheries in the Copper River and Bering River Districts, 1989

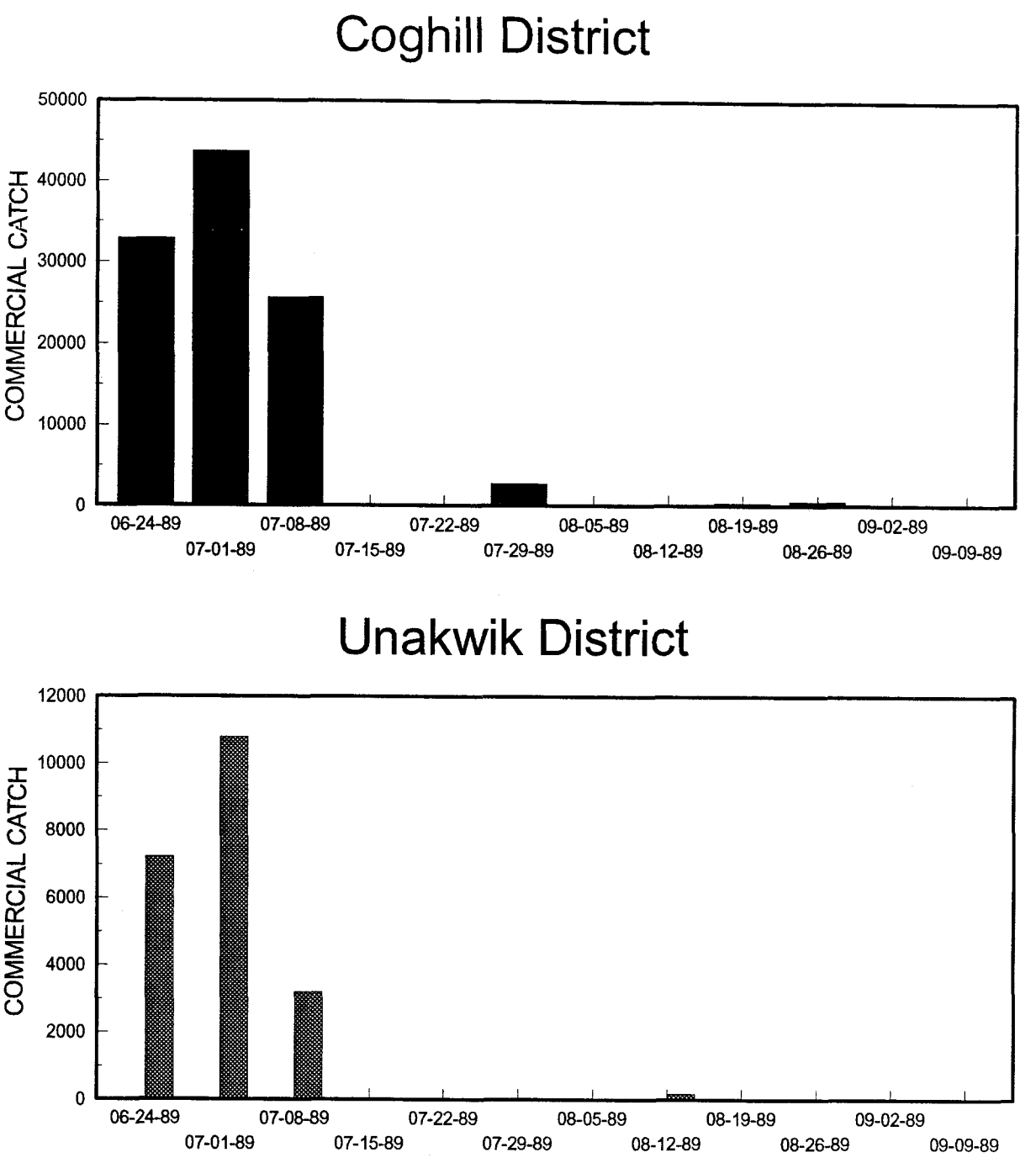



Figure 12. Weekly sockeye salmon catches from the Coghill District and Unakwik District commercial common property drift gillnet fisheries, 1989

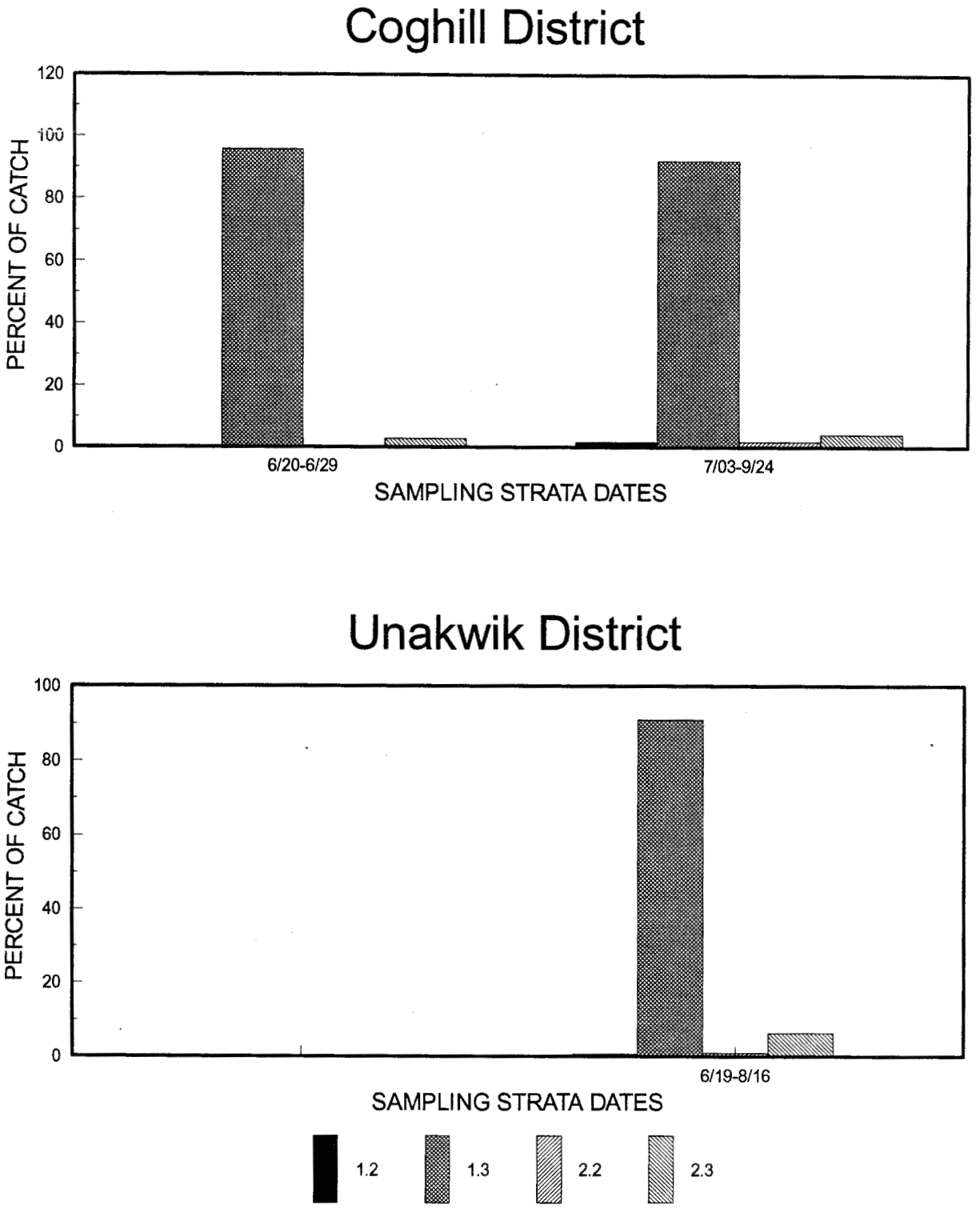



Figure 13. Temporally stratified age composition of sockeye salmon from the commercial common property drift gillnet fisheries in the Coghill and Unakwik Districts, 1989

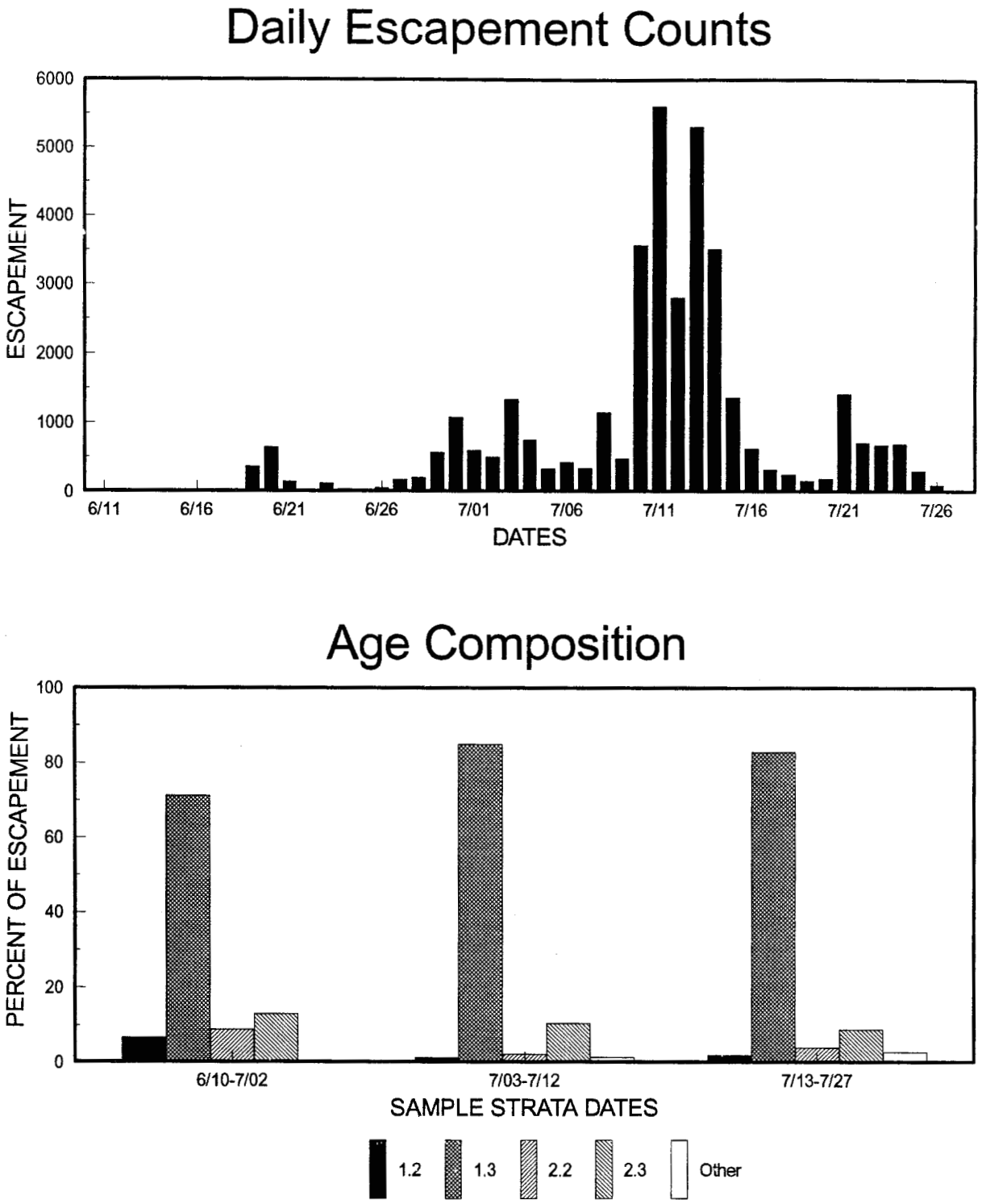



Figure 14. Daily sockeye escapement through the weir below Coghill Lake and the temporally stratified age composition of that escapement, Prince William Sound, 1989

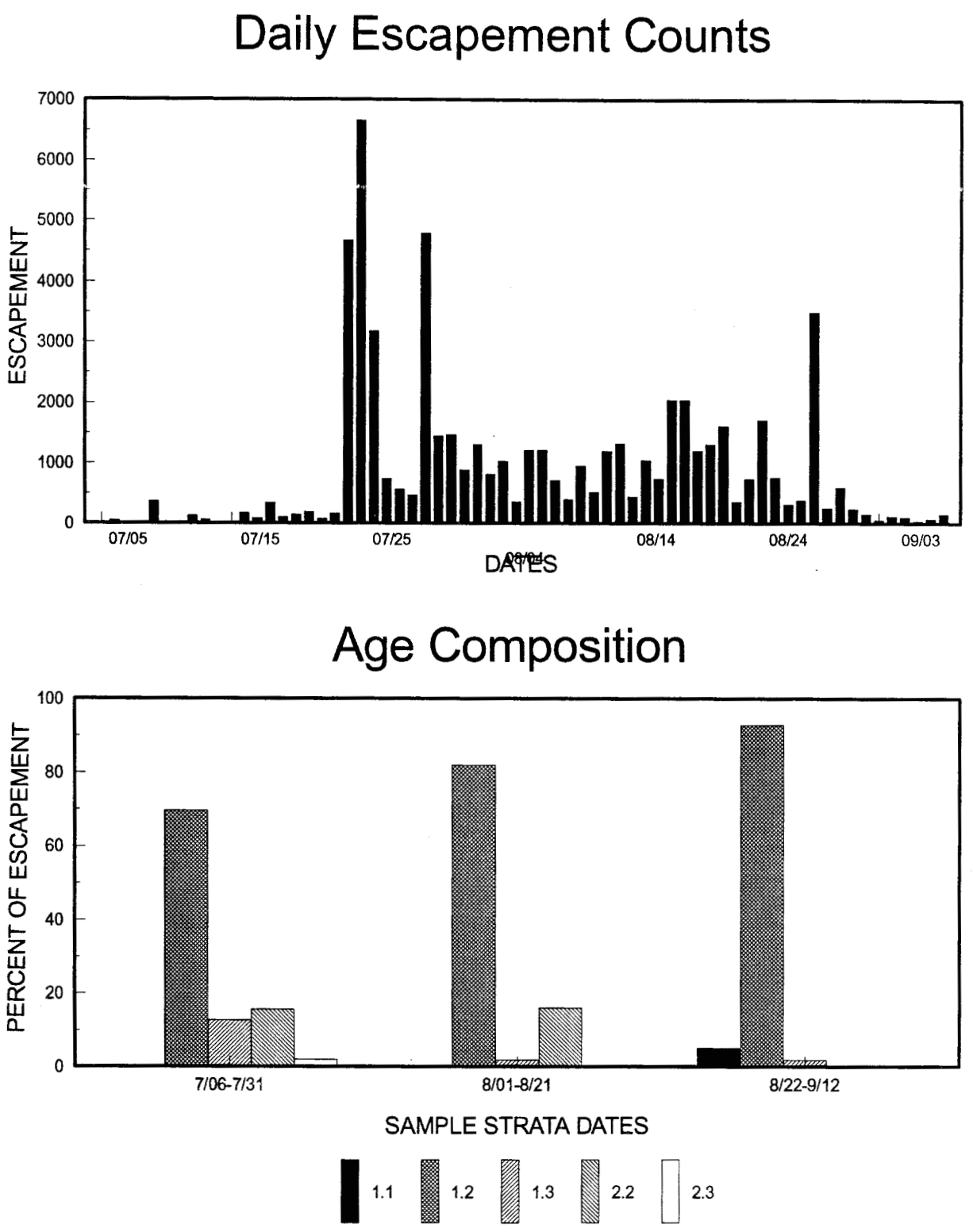



Figure 15. Daily sockeye escapement through the weir at the head of Eshamy Lagoon and the temporally stratified age composition of that escapement, Prince William Sound, 1989

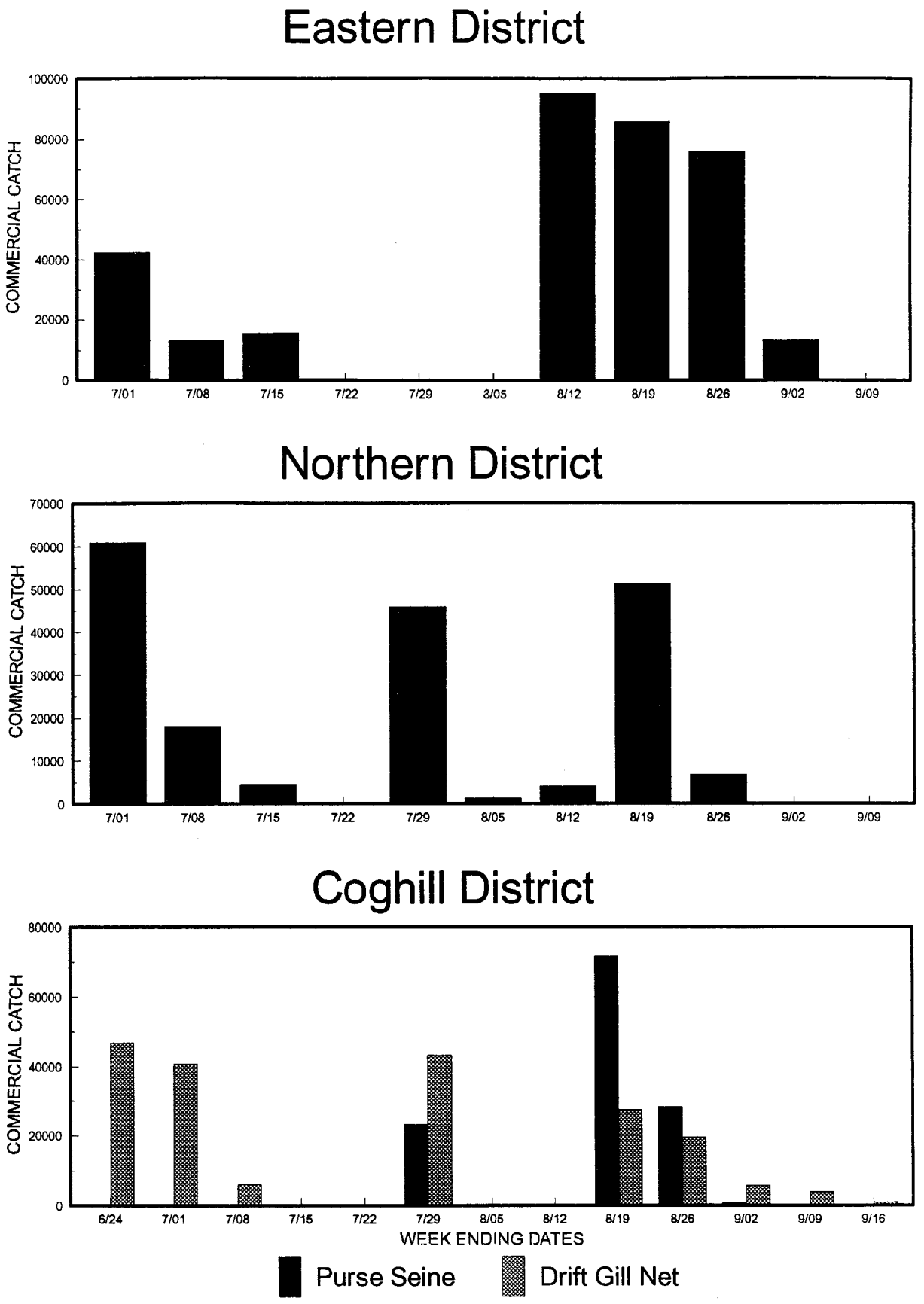



Figure 16. Weekly chum salmon catches from the major commercial common property purse seine and drift gillnet fisheries, Prince William Sound, 1989

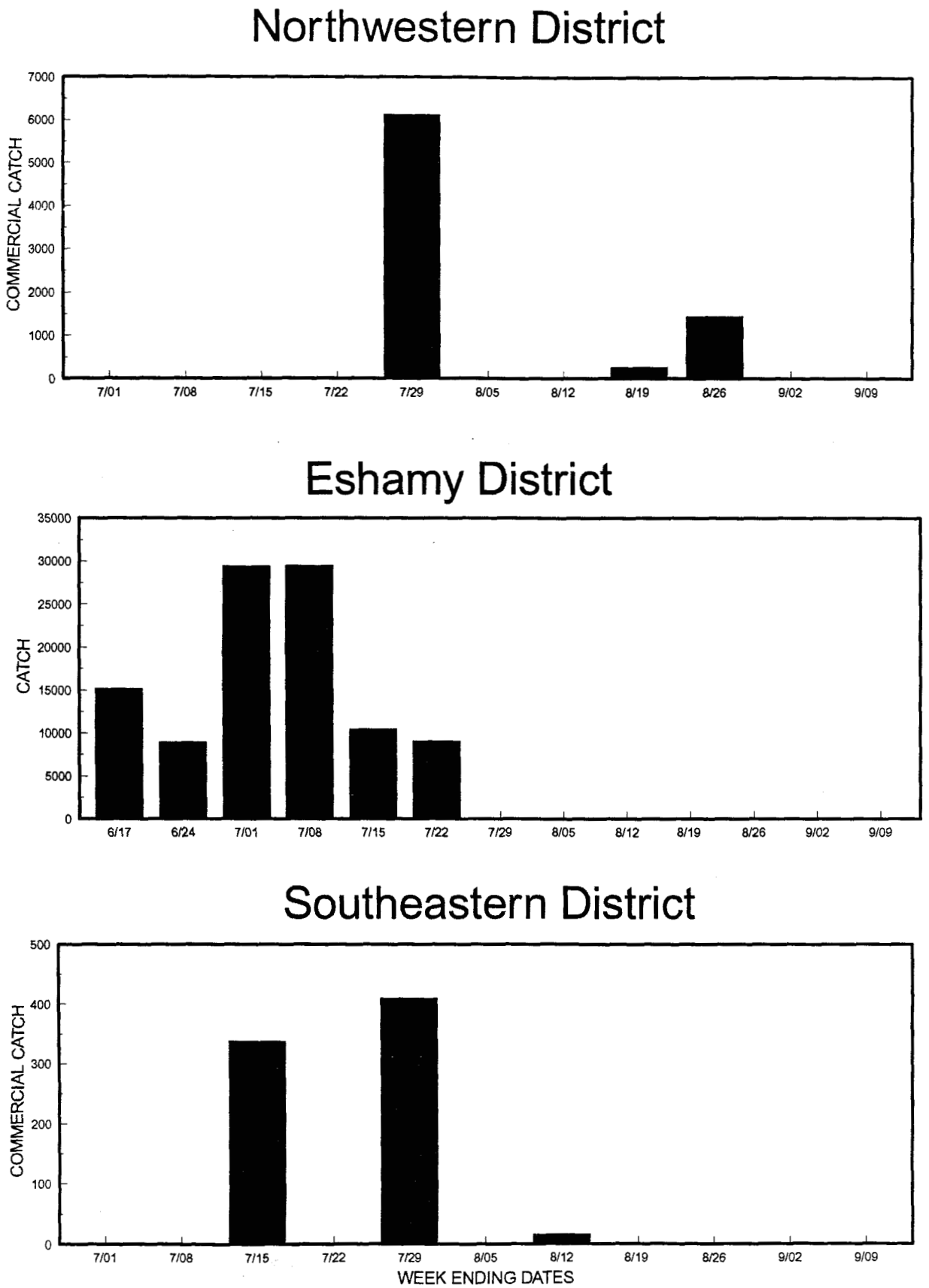



Figure 16. (Pg 2 of 2).

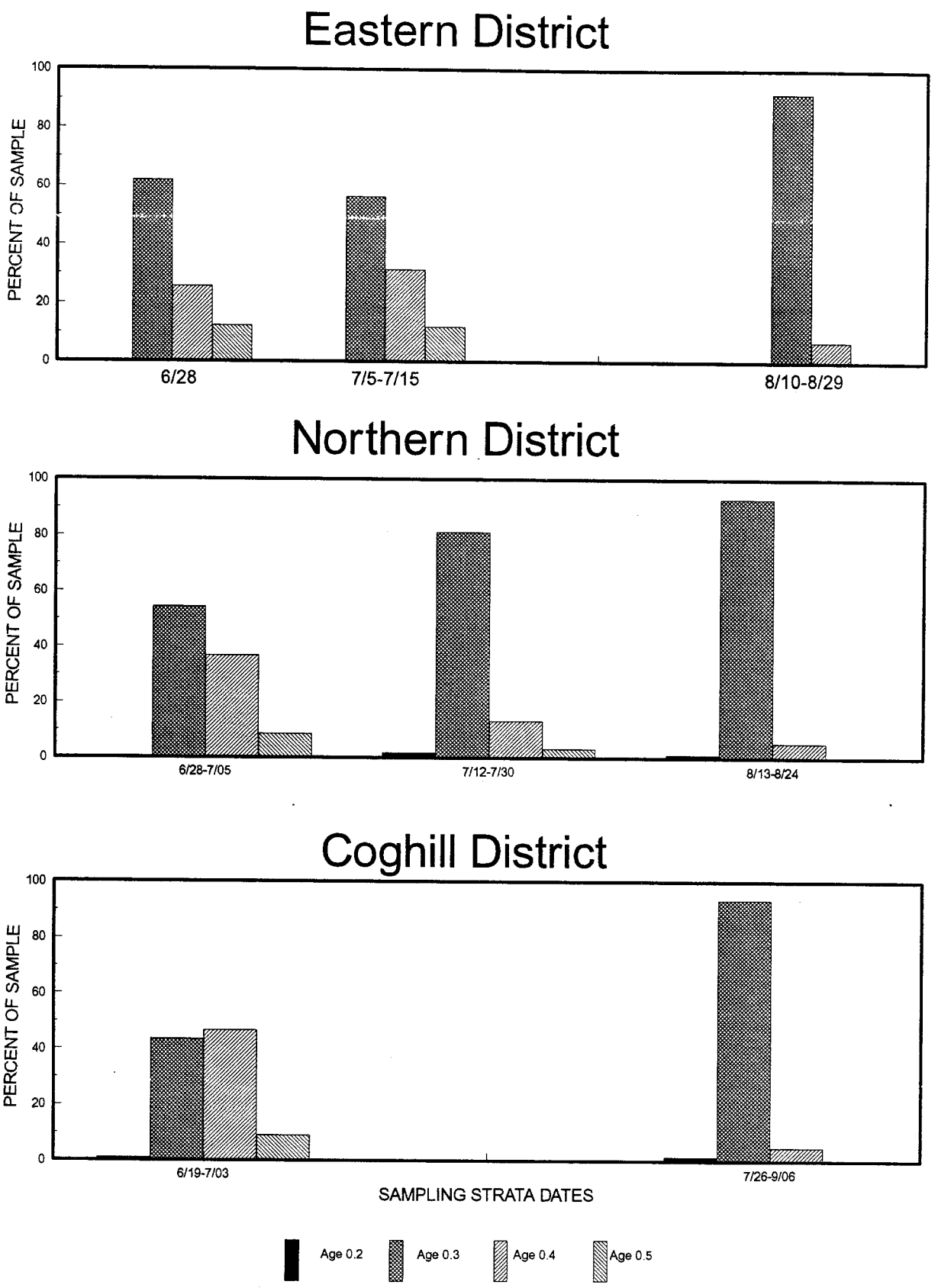



Figure 17. Temporally stratified age composition of sockeye salmon from the major commercial common property purse seine and drift gillnet fisheries and hatchery cost recovery fisheries, Prince William Sound, 1989

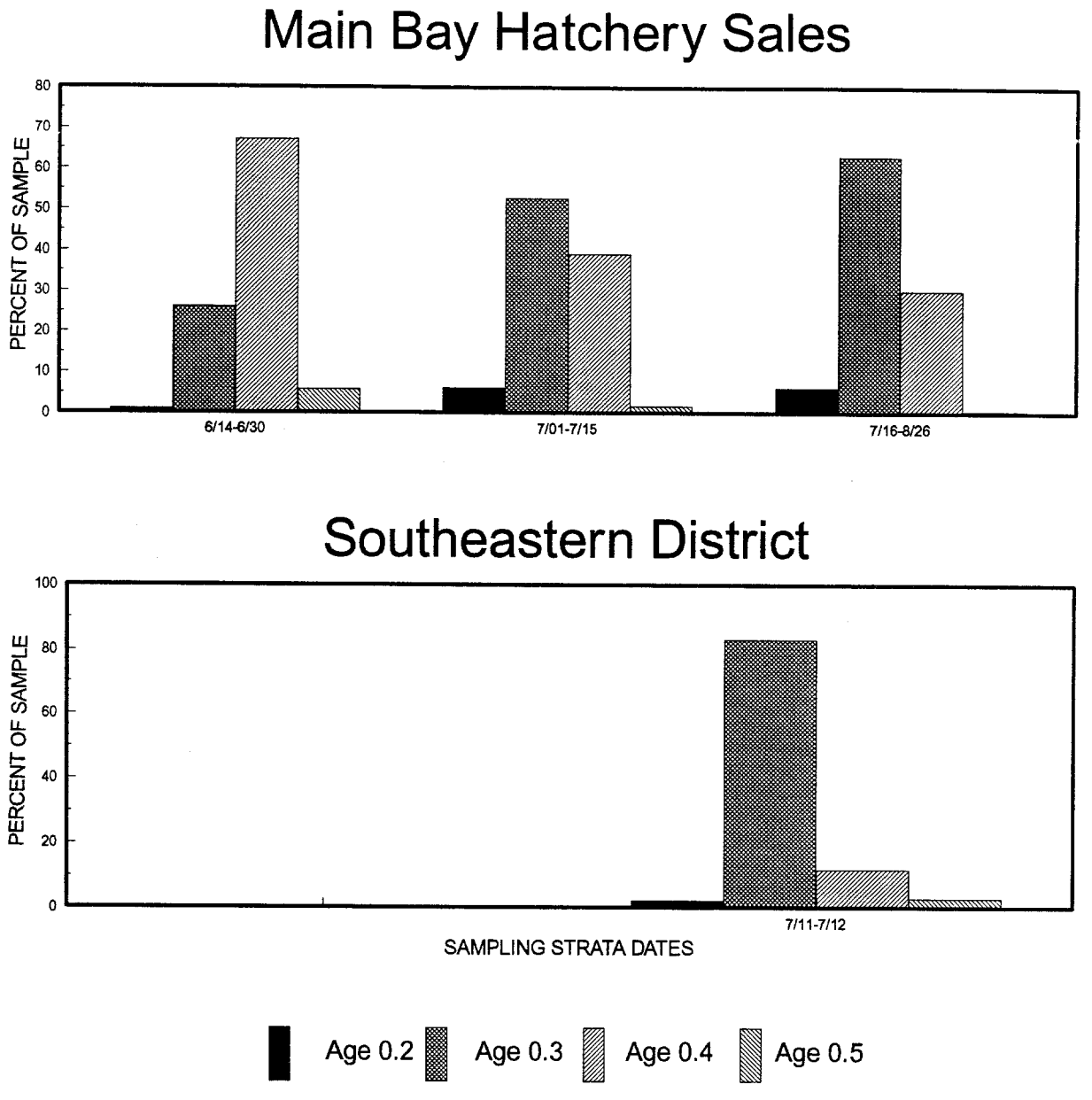
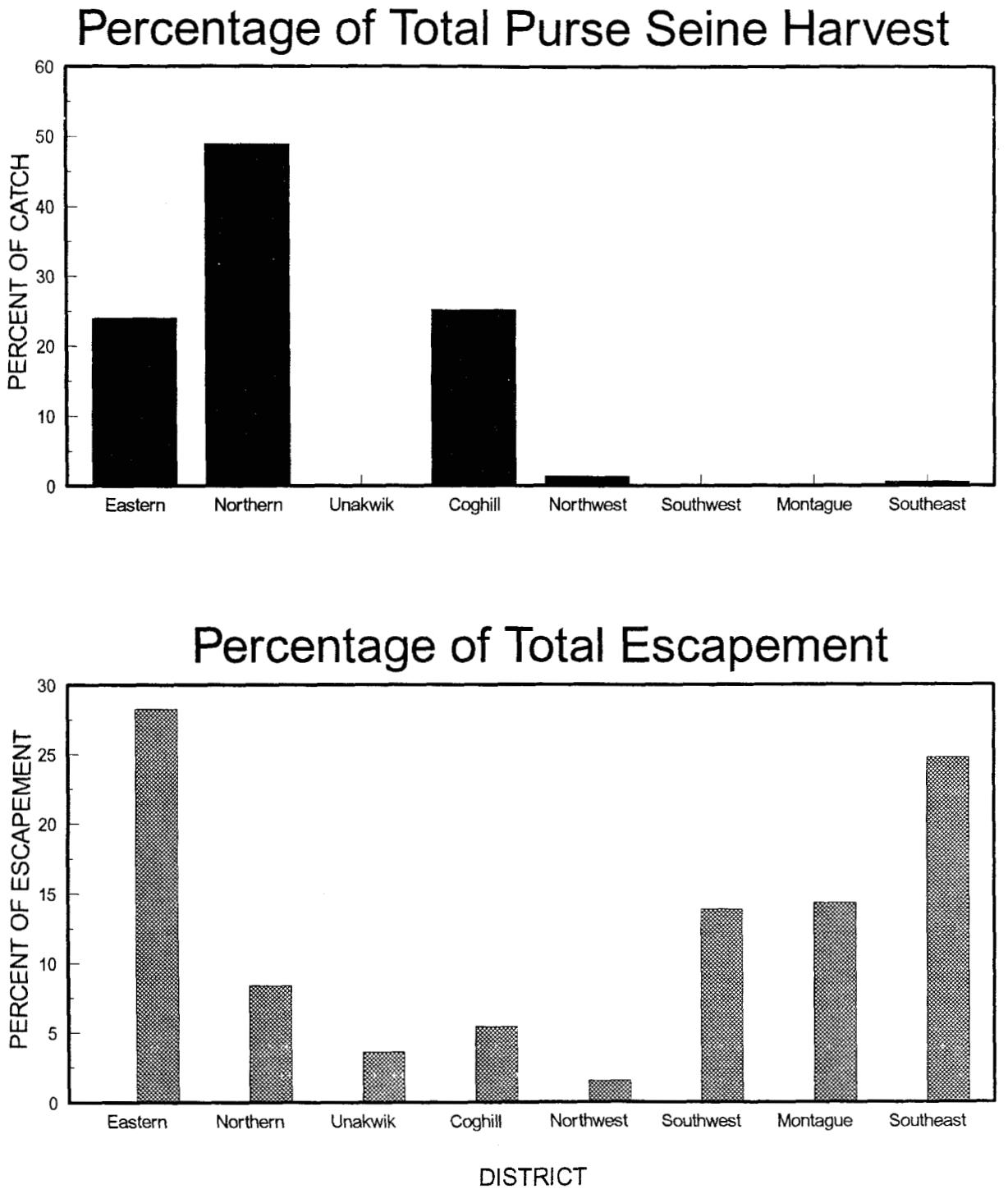



Figure 17. (Pg 2 of 2).




Firure 18. Percentage of the total commercial common property pink salmon purse seine catch, and the percentage of wild stock pink salmon escapements which occurred in the major purse seine districts in Prince William Sound, 1989.

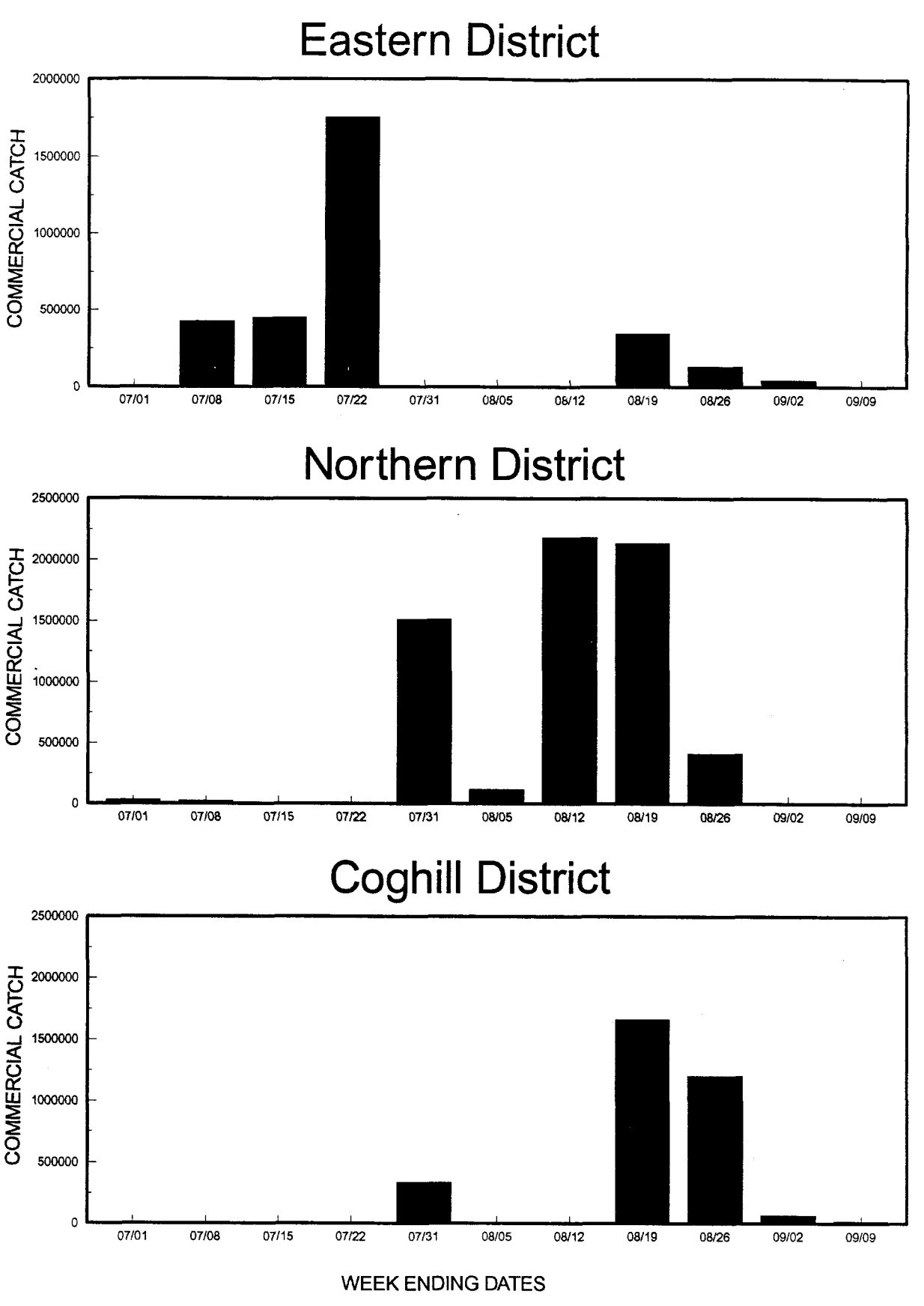



Figure 19. Weekly commercial common property pink salmon catches from the major purse seine districts in Prince William Sound, 1989

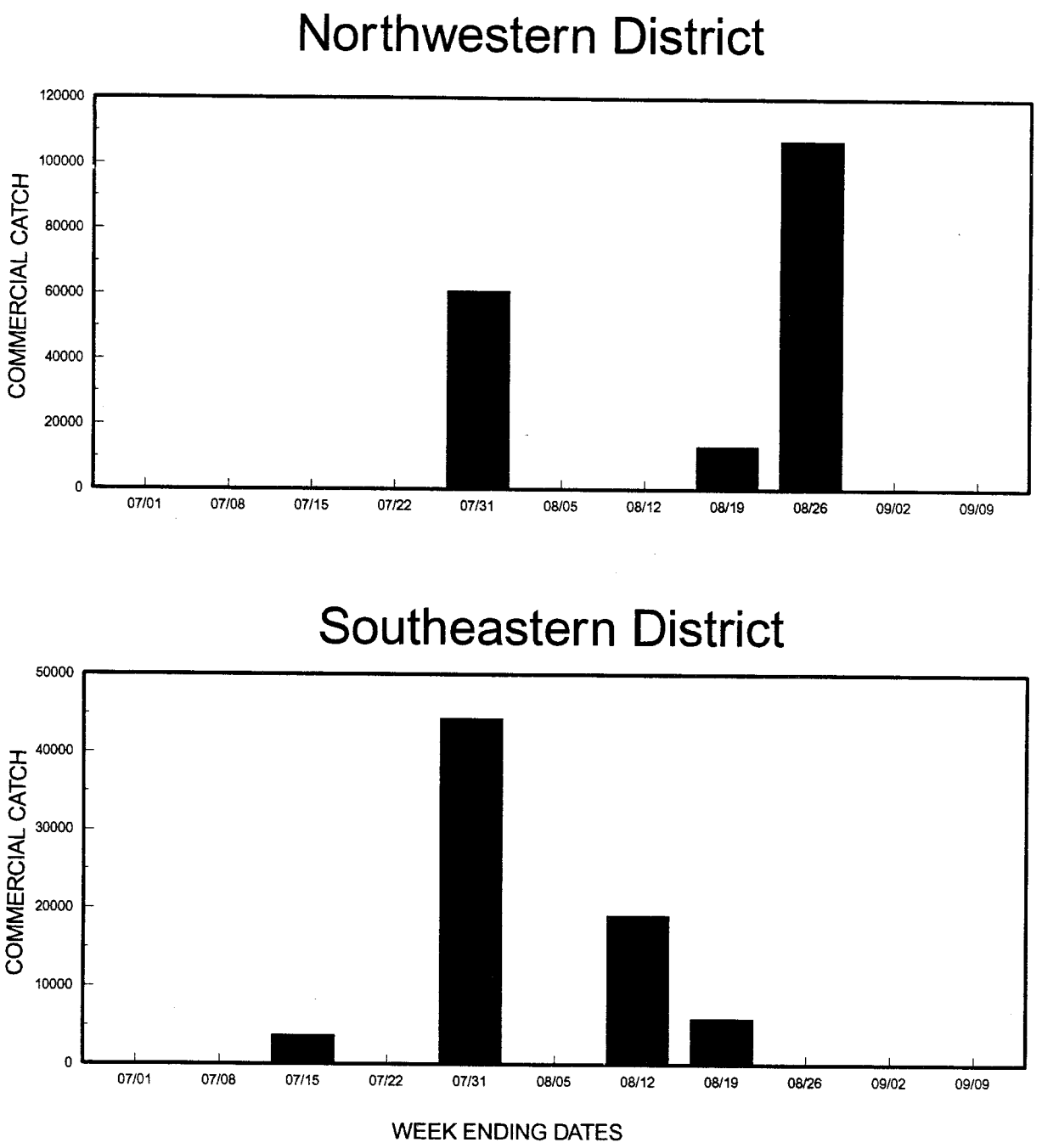



Figure 19. (Pg 2 of 2).

## APPENDIX A

Age and Sex Data for
Commercial Salmon Catches from the
Copper River and Bering Rivers
(Districts 212 and 200)

Appendix A.1. Temporally stratified age and sex composition of sockeye salmon harvested in the Copper River District commercial common property drift gillnet fishery, 1989.

| | | Brood Year and Age Group | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1986 | | 1985 | | 1984 | | | 1983 | | 1982 | |
| | | 0.2 | 1.1 | 0.3 | 1.2 | 0.4 | 1.3 | 2.2 | 1.4 | 2.3 | 2.4 | Total |
| Stratum Dates: | 5/15–5/19 | | | | | | | | | | | |
| Sampling Dates: | 5/16–5/17 | | | | | | | | | | | |
| Sample Size: | 586 | | | | | | | | | | | |
| Female | Percent of Sample | 0.0 | 0.0 | 4.3 | 0.2 | 0.0 | 39.6 | 0.0 | 0.2 | 8.4 | 0.0 | 52.6 |
| | Number in Catch | 0 | 0 | 8,575 | 343 | 0 | 79,577 | 0 | 343 | 16,807 | 0 | 105,645 |
| Male | Percent of Sample | 0.0 | 0.0 | 3.9 | 0.0 | 0.0 | 35.7 | 0.0 | 0.2 | 7.5 | 0.2 | 47.4 |
| | Number in Catch | 0 | 0 | 7,889 | 0 | 0 | 71,688 | 0 | 343 | 15,092 | 343 | 95,355 |
| Total | Percent of Sample | 0.0 | 0.0 | 8.2 | 0.2 | 0.0 | 75.3 | 0.0 | 0.3 | 15.9 | 0.2 | 100.0 |
| | Number in Catch | 0 | 0 | 16,464 | 343 | 0 | 151,265 | 0 | 686 | 31,899 | 343 | 201,000 |
| | Standard Error | 0 | 0 | 2,279 | 343 | 0 | 3,586 | 0 | 485 | 3,037 | 343 | |
| Stratum Dates: | 5/22–5/27 | | | | | | | | | | | |
| Sampling Dates: | 5/23–5/24 | | | | | | | | | | | |
| Sample Size: | 564 | | | | | | | | | | | |
| Female | Percent of Sample | 0.0 | 0.0 | 3.9 | 0.7 | 0.0 | 35.5 | 0.0 | 0.0 | 5.0 | 0.0 | 45.0 |
| | Number in Catch | 0 | 0 | 10,232 | 1,860 | 0 | 93,016 | 0 | 0 | 13,022 | 0 | 118,130 |
| Male | Percent of Sample | 0.2 | 0.0 | 2.8 | 1.4 | 0.2 | 45.6 | 0.0 | 0.0 | 4.8 | 0.0 | 55.0 |
| | Number in Catch | 465 | 0 | 7,441 | 3,721 | 465 | 119,525 | 0 | 0 | 12,557 | 0 | 144,174 |
| Total | Percent of Sample | 0.2 | 0.0 | 6.7 | 2.1 | 0.2 | 81.0 | 0.0 | 0.0 | 9.8 | 0.0 | 100.0 |
| | Number in Catch | 465 | 0 | 17,673 | 5,581 | 465 | 212,541 | 0 | 0 | 25,579 | 0 | 262,304 |
| | Standard Error | 465 | 0 | 2,771 | 1,595 | 465 | 4,334 | 0 | 0 | 3,280 | 0 | |
| Stratum Dates: | 5/29–6/02 | | | | | | | | | | | |
| Sampling Dates: | 5/30–5/31 | | | | | | | | | | | |
| Sample Size: | 555 | | | | | | | | | | | |
| Female | Percent of Sample | 0.4 | 0.0 | 2.5 | 0.9 | 0.0 | 40.9 | 0.7 | 0.2 | 8.1 | 0.0 | 53.7 |
| | Number in Catch | 531 | 0 | 3,719 | 1,328 | 0 | 60,303 | 1,063 | 266 | 11,954 | 0 | 79,164 |
| Male | Percent of Sample | 1.4 | 0.0 | 2.2 | 4.0 | 0.2 | 31.9 | 0.4 | 0.0 | 5.8 | 0.2 | 45.9 |
| | Number in Catch | 2,125 | 0 | 3,188 | 5,844 | 266 | 47,020 | 531 | 0 | 8,501 | 266 | 67,741 |
| Total | Percent of Sample | 1.8 | 0.0 | 4.7 | 4.9 | 0.2 | 73.0 | 1.1 | 0.4 | 13.9 | 0.2 | 100.0 |
| | Number in Catch | 2,657 | 0 | 6,907 | 7,173 | 266 | 107,589 | 1,594 | 531 | 20,455 | 266 | 147,437 |
| | Standard Error | 833 | 0 | 1,324 | 1,348 | 266 | 2,782 | 648 | 375 | 2,165 | 266 | |

–Continued–

Appendix A.1. (Page 2 of 3).

| | | Brood Year and Age Group | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1986 | | 1985 | | 1984 | | | 1983 | | 1982 | |
| | | 0.2 | 1.1 | 0.3 | 1.2 | 0.4 | 1.3 | 2.2 | 1.4 | 2.3 | 2.4 | Total |
| Stratum Dates: | 6/05–6/09 | | | | | | | | | | | |
| Sampling Dates: | 6/06–6/07 | | | | | | | | | | | |
| Sample Size: | 612 | | | | | | | | | | | |
| Female | Percent of Sample | 0.3 | 0.0 | 1.1 | 3.1 | 0.0 | 36.9 | 1.0 | 0.5 | 8.5 | 0.2 | 51.6 |
| | Number in Catch | 390 | 0 | 1,367 | 3,710 | 0 | 44,126 | 1,171 | 586 | 10,153 | 195 | 61,698 |
| Male | Percent of Sample | 0.5 | 0.0 | 0.2 | 6.5 | 0.0 | 32.5 | 0.2 | 0.2 | 8.2 | 0.2 | 48.4 |
| | Number in Catch | 586 | 0 | 195 | 7,810 | 0 | 38,854 | 195 | 195 | 9,762 | 195 | 57,794 |
| Total | Percent of Sample | 0.8 | 0.0 | 1.3 | 9.6 | 0.0 | 69.4 | 1.1 | 0.7 | 16.7 | 0.3 | 100.0 |
| | Number in Catch | 976 | 0 | 1,562 | 11,520 | 0 | 82,981 | 1,367 | 781 | 19,915 | 390 | 119,492 |
| | Standard Error | 435 | 0 | 549 | 1,427 | 0 | 2,227 | 514 | 390 | 1,802 | 276 | |
| Stratum Dates: | 6/12–6/16 | | | | | | | | | | | |
| Sampling Dates: | 6/13 | | | | | | | | | | | |
| Sample Size: | 608 | | | | | | | | | | | |
| Female | Percent of Sample | 0.3 | 0.0 | 1.0 | 1.6 | 0.0 | 44.2 | 0.2 | 0.2 | 4.9 | 0.0 | 52.5 |
| | Number in Catch | 285 | 0 | 855 | 1,426 | 0 | 38,348 | 143 | 143 | 4,277 | 0 | 45,476 |
| Male | Percent of Sample | 0.3 | 0.0 | 0.5 | 3.1 | 0.0 | 39.5 | 0.8 | 0.2 | 3.1 | 0.0 | 47.5 |
| | Number in Catch | 285 | 0 | 428 | 2,709 | 0 | 34,214 | 713 | 143 | 2,709 | 0 | 41,199 |
| Total | Percent of Sample | 0.7 | 0.0 | 1.5 | 4.8 | 0.0 | 83.7 | 1.0 | 0.3 | 8.1 | 0.0 | 100.0 |
| | Number in Catch | 570 | 0 | 1,283 | 4,134 | 0 | 72,562 | 855 | 285 | 6,985 | 0 | 86,675 |
| | Standard Error | 284 | 0 | 425 | 750 | 0 | 1,299 | 348 | 201 | 958 | 0 | |
| Stratum Dates: | 6/19–6/27 | | | | | | | | | | | |
| Sampling Dates: | 6/24 | | | | | | | | | | | |
| Sample Size: | 608 | | | | | | | | | | | |
| Female | Percent of Sample | 0.3 | 0.0 | 1.8 | 3.1 | 0.0 | 40.3 | 0.0 | 0.0 | 1.8 | 0.0 | 47.4 |
| | Number in Catch | 281 | 0 | 1,543 | 2,665 | 0 | 34,369 | 0 | 0 | 1,543 | 0 | 40,401 |
| Male | Percent of Sample | 0.7 | 0.3 | 1.0 | 8.1 | 0.0 | 40.0 | 0.3 | 0.2 | 2.1 | 0.0 | 52.6 |
| | Number in Catch | 561 | 281 | 842 | 6,874 | 0 | 34,088 | 281 | 140 | 1,824 | 0 | 44,890 |
| Total | Percent of Sample | 1.0 | 0.3 | 2.8 | 11.2 | 0.0 | 80.3 | 0.3 | 0.2 | 3.9 | 0.0 | 100.0 |
| | Number in Catch | 842 | 281 | 2,385 | 9,539 | 0 | 68,457 | 281 | 140 | 3,367 | 0 | 85,291 |
| | Standard Error | 342 | 198 | 571 | 1,091 | 0 | 1,378 | 198 | 140 | 674 | 0 | |

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| | | Brood Year and Age Group | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1986 | | 1985 | | 1984 | | | 1983 | | 1982 | |
| | | 0.2 | 1.1 | 0.3 | 1.2 | 0.4 | 1.3 | 2.2 | 1.4 | 2.3 | 2.4 | Total |
| Stratum Dates: | 7/03–7/11 | | | | | | | | | | | |
| Sampling Dates: | 7/11 | | | | | | | | | | | |
| Sample Size: | 588 | | | | | | | | | | | |
| Female | Percent of Sample | 0.3 | 0.0 | 0.9 | 4.4 | 0.0 | 30.8 | 1.2 | 0.0 | 8.2 | 0.0 | 45.7 |
| | Number in Catch | 209 | 0 | 522 | 2,713 | 0 | 18,886 | 730 | 0 | 5,009 | 0 | 28,069 |
| Male | Percent of Sample | 0.5 | 0.2 | 0.5 | 9.2 | 0.0 | 34.9 | 1.7 | 0.0 | 7.3 | 0.0 | 54.3 |
| | Number in Catch | 313 | 104 | 313 | 5,635 | 0 | 21,391 | 1,043 | 0 | 4,487 | 0 | 33,286 |
| Total | Percent of Sample | 0.9 | 0.2 | 1.4 | 13.6 | 0.0 | 65.6 | 2.9 | 0.0 | 15.5 | 0.0 | 100.0 |
| | Number in Catch | 522 | 104 | 835 | 8,348 | 0 | 40,277 | 1,774 | 0 | 9,495 | 0 | 61,355 |
| | Standard Error | 233 | 104 | 293 | 868 | 0 | 1,203 | 424 | 0 | 916 | 0 | |
| Stratum Dates: | 7/17–9/23 | | | | | | | | | | | |
| Sampling Dates: | 7/25 | | | | | | | | | | | |
| Sample Size: | 563 | | | | | | | | | | | |
| Female | Percent of Sample | 0.2 | 0.0 | 0.4 | 7.3 | 0.0 | 41.4 | 2.3 | 0.0 | 6.4 | 0.0 | 57.9 |
| | Number in Catch | 111 | 0 | 222 | 4,542 | 0 | 25,812 | 1,440 | 0 | 3,988 | 0 | 36,114 |
| Male | Percent of Sample | 0.0 | 0.4 | 0.9 | 8.3 | 0.0 | 25.4 | 2.7 | 0.0 | 4.3 | 0.0 | 41.9 |
| | Number in Catch | 0 | 222 | 554 | 5,207 | 0 | 15,842 | 1,662 | 0 | 2,659 | 0 | 26,144 |
| Total | Percent of Sample | 0.2 | 0.4 | 1.2 | 15.6 | 0.0 | 66.8 | 5.0 | 0.0 | 10.8 | 0.0 | 100.0 |
| | Number in Catch | 111 | 222 | 775 | 9,749 | 0 | 41,653 | 3,102 | 0 | 6,758 | 0 | 62,369 |
| | Standard Error | 111 | 157 | 292 | 955 | 0 | 1,239 | 572 | 0 | 818 | 0 | |
| Strata Combined: | 5/15–9/23 | | | | | | | | | | | |
| Sampling Dates: | 5/16–7/25 | | | | | | | | | | | |
| Sample Size: | 4,684 | | | | | | | | | | | |
| Female | Percent of Sample | 0.2 | 0.0 | 2.6 | 1.8 | 0.0 | 38.4 | 0.4 | 0.1 | 6.5 | 0.0 | 50.2 |
| | Number in Catch | 1,807 | 0 | 27,034 | 18,587 | 0 | 394,437 | 4,547 | 1,337 | 66,753 | 195 | 514,698 |
| Male | Percent of Sample | 0.4 | 0.1 | 2.0 | 3.7 | 0.1 | 37.3 | 0.4 | 0.1 | 5.6 | 0.1 | 49.8 |
| | Number in Catch | 4,335 | 606 | 20,850 | 37,799 | 731 | 382,622 | 4,425 | 821 | 57,590 | 804 | 510,583 |
| Total | Percent of Sample | 0.6 | 0.1 | 4.7 | 5.5 | 0.1 | 75.8 | 0.9 | 0.2 | 12.1 | 0.1 | 100.0 |
| | Number in Catch | 6,142 | 606 | 47,884 | 56,386 | 731 | 777,324 | 8,972 | 2,424 | 124,454 | 999 | 1,025,923 |
| | Standard Error | 1,168 | 273 | 3,950 | 3,152 | 536 | 7,135 | 1,162 | 767 | 5,549 | 514 | |

Appendix A.2. Estimated age and sex composition of sockeye salmon harvested in the Bering River District commercial common property drift gillnet fishery, 1989.

| | | Brood Year and Age Group | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | 1986 | | 1985 | | 1984 | | 1983 | |
| | | 0.2 | 1.1 | 0.3 | 1.2 | 1.3 | 2.2 | 2.3 | Total |
| Stratum Dates: | 6/19–9/02 | | | | | | | | |
| Sampling Dates: | 6/20 | | | | | | | | |
| Sample Size: | 593 | | | | | | | | |
| Female | Percent of Sample | 1.0 | 0.0 | 0.3 | 6.1 | 30.0 | 0.0 | 4.4 | 41.8 |
| | Number in Catch | 93 | 0 | 31 | 560 | 2,769 | 0 | 404 | 3,858 |
| Male | Percent of Sample | 1.7 | 0.5 | 0.3 | 11.1 | 38.8 | 1.0 | 4.7 | 58.2 |
| | Number in Catch | 156 | 47 | 31 | 1,027 | 3,578 | 93 | 436 | 5,367 |
| Total | Percent of Sample | 2.7 | 0.5 | 0.7 | 17.2 | 68.8 | 1.0 | 9.1 | 100.0 |
| | Number in Catch | 249 | 47 | 62 | 1,587 | 6,347 | 93 | 840 | 9,225 |
| | Standard Error | 61 | 27 | 31 | 143 | 176 | 38 | 109 | |

Appendix A.3. Temporally stratified age and sex composition of chinook salmon harvested in the Copper River District commercial common property drift gillnet fishery, 1989.

| | | Brood Year and Age Group | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1986 | 1985 | | | 1984 | | 1983 | | 1982 | | |
| | | 1.1 | 1.2 | 2.1 | 0.4 | 1.3 | 2.2 | 1.4 | 2.3 | 1.5 | 2.4 | Total |
| Stratum Dates: 05/15 – 05/19<br>Sampling Dates: 05/16 – 06/03<br>Sample Size: 498 | | | | | | | | | | | | |
| Female | Percent of Sample | 0.0 | 0.0 | 0.0 | 0.2 | 10.6 | 0.0 | 26.7 | 1.8 | 0.4 | 3.8 | 43.6 |
| | Number in Catch | 0 | 0 | 0 | 14 | 748 | 0 | 1,876 | 127 | 28 | 268 | 3,061 |
| Male | Percent of Sample | 0.0 | 0.8 | 0.0 | 0.0 | 8.8 | 0.0 | 36.9 | 0.8 | 3.6 | 5.4 | 56.4 |
| | Number in Catch | 0 | 56 | 0 | 0 | 621 | 0 | 2,596 | 56 | 254 | 381 | 3,964 |
| Total | Percent of Sample | 0.0 | 0.8 | 0.0 | 0.2 | 19.5 | 0.0 | 63.7 | 2.6 | 4.0 | 9.2 | 100.0 |
| | Number in Catch | 0 | 56 | 0 | 14 | 1,368 | 0 | 4,472 | 183 | 282 | 649 | 7,025 |
| | Standard Error | 0 | 28 | 0 | 14 | 125 | 0 | 152 | 50 | 62 | 91 | |
| Stratum Dates: 05/22 – 06/02<br>Sampling Dates: 05/27 – 06/10<br>Sample Size: 540 | | | | | | | | | | | | |
| Female | Percent of Sample | 0.0 | 0.9 | 0.0 | 0.0 | 14.3 | 0.0 | 26.1 | 1.5 | 0.4 | 1.9 | 45.0 |
| | Number in Catch | 0 | 141 | 0 | 0 | 2,176 | 0 | 3,984 | 226 | 57 | 283 | 6,866 |
| Male | Percent of Sample | 0.2 | 2.8 | 0.2 | 0.0 | 12.2 | 0.4 | 34.8 | 0.6 | 1.5 | 2.0 | 54.6 |
| | Number in Catch | 28 | 424 | 28 | 0 | 1,865 | 57 | 5,312 | 85 | 226 | 311 | 8,335 |
| Total | Percent of Sample | 0.2 | 3.7 | 0.2 | 0.0 | 26.5 | 0.4 | 61.3 | 2.0 | 1.9 | 3.9 | 100.0 |
| | Number in Catch | 28 | 565 | 28 | 0 | 4,040 | 57 | 9,352 | 311 | 283 | 593 | 15,257 |
| | Standard Error | 28 | 124 | 28 | 0 | 290 | 40 | 320 | 93 | 89 | 127 | |
| Stratum Dates: 06/05 – 08/23<br>Sampling Dates: 06/09 – 06/10<br>Sample Size: 507 | | | | | | | | | | | | |
| Female | Percent of Sample | 0.0 | 0.8 | 0.0 | 0.0 | 12.2 | 0.0 | 29.8 | 1.4 | 1.0 | 3.7 | 48.9 |
| | Number in Catch | 0 | 68 | 0 | 0 | 1,049 | 0 | 2,556 | 118 | 85 | 322 | 4,197 |
| Male | Percent of Sample | 0.2 | 1.2 | 0.4 | 0.0 | 13.0 | 0.0 | 31.0 | 1.0 | 1.4 | 3.0 | 51.1 |
| | Number in Catch | 17 | 102 | 34 | 0 | 1,117 | 0 | 2,657 | 85 | 118 | 254 | 4,384 |
| Total | Percent of Sample | 0.2 | 2.0 | 0.4 | 0.0 | 25.2 | 0.0 | 60.7 | 2.4 | 2.4 | 6.7 | 100.0 |
| | Number in Catch | 17 | 169 | 34 | 0 | 2,166 | 0 | 5,213 | 203 | 203 | 575 | 8,581 |
| | Standard Error | 17 | 53 | 24 | 0 | 166 | 0 | 186 | 58 | 58 | 95 | |
| Strata Combined: 05/15 – 08/23<br>Sampling Dates: 05/16 – 06/10<br>Sample Size: 1,545 | | | | | | | | | | | | |
| Female | Percent of Sample | 0.0 | 0.7 | 0.0 | 0.0 | 12.9 | 0.0 | 27.3 | 1.5 | 0.5 | 2.8 | 45.8 |
| | Number in Catch | 0 | 209 | 0 | 14 | 3,973 | 0 | 8,416 | 471 | 169 | 872 | 14,124 |
| Male | Percent of Sample | 0.1 | 1.9 | 0.2 | 0.0 | 11.7 | 0.2 | 34.2 | 0.7 | 1.9 | 3.1 | 54.1 |
| | Number in Catch | 45 | 582 | 62 | 0 | 3,602 | 57 | 10,565 | 226 | 598 | 946 | 16,682 |
| Total | Percent of Sample | 0.1 | 2.6 | 0.2 | 0.0 | 24.5 | 0.2 | 61.7 | 2.3 | 2.5 | 5.9 | 100.0 |
| | Number in Catch | 45 | 791 | 62 | 14 | 7,575 | 57 | 19,037 | 697 | 768 | 1,818 | 30,863 |
| | Standard Error | 33 | 138 | 37 | 14 | 357 | 40 | 400 | 120 | 123 | 183 | |

Appendix A.4. Temporally stratified age and sex composition of coho salmon harvested in the Copper River District commercial common property drift gillnet fishery, 1989.

| | | Brood Year and Age Group | | | |
|---|---|---|---|---|---|
| | | 1986 | 1985 | 1984 | |
| | | 1.1 | 2.1 | 3.1 | Total |
| Stratum Dates: | 6/08–8/16 | | | | |
| Sampling Dates: | 8/06–8/09 | | | | |
| Sample Size: | 415 | | | | |
| Female | Percent of Sample | 7.2 | 7.0 | 0.5 | 14.7 |
| | Number in Catch | 2,876 | 2,780 | 192 | 5,848 |
| Male | Percent of Sample | 36.6 | 47.0 | 1.7 | 85.3 |
| | Number in Catch | 14,572 | 18,694 | 671 | 33,937 |
| Total | Percent of Sample | 43.9 | 54.0 | 2.2 | 100.0 |
| | Number in Catch | 17,448 | 21,474 | 863 | 39,785 |
| | Standard Error | 970 | 975 | 285 | |
| Stratum Dates: | 8/21–9/02 | | | | |
| Sampling Dates: | 8/23 | | | | |
| Sample Size: | 409 | | | | |
| Female | Percent of Sample | 15.9 | 17.4 | 0.0 | 33.3 |
| | Number in Catch | 11,302 | 12,345 | 0 | 23,646 |
| Male | Percent of Sample | 36.2 | 30.6 | 0.0 | 66.7 |
| | Number in Catch | 25,733 | 21,734 | 0 | 47,467 |
| Total | Percent of Sample | 52.1 | 47.9 | 0.0 | 100.0 |
| | Number in Catch | 37,034 | 34,079 | 0 | 71,113 |
| | Standard Error | 1,759 | 1,759 | 0 | |
| Stratum Dates: | 9/11–9/30 | | | | |
| Sampling Dates: | 9/12 | | | | |
| Sample Size: | 381 | | | | |
| Female | Percent of Sample | 29.4 | 26.2 | 0.5 | 56.2 |
| | Number in Catch | 24,562 | 21,931 | 439 | 46,932 |
| Male | Percent of Sample | 26.0 | 17.8 | 0.0 | 43.8 |
| | Number in Catch | 21,711 | 14,913 | 0 | 36,624 |
| Total | Percent of Sample | 55.4 | 44.1 | 0.5 | 100.0 |
| | Number in Catch | 46,274 | 36,844 | 439 | 83,556 |
| | Standard Error | 2,131 | 2,128 | 310 | |
| Strata Combined: | 6/08–9/30 | | | | |
| Sampling Dates: | 8/06–9/12 | | | | |
| Sample Size: | 1,205 | | | | |
| Female | Percent of Sample | 19.9 | 19.1 | 0.3 | 39.3 |
| | Number in Catch | 38,740 | 37,056 | 630 | 76,426 |
| Male | Percent of Sample | 31.9 | 28.5 | 0.3 | 60.7 |
| | Number in Catch | 62,016 | 55,341 | 671 | 118,028 |
| Total | Percent of Sample | 51.8 | 47.5 | 0.7 | 100.0 |
| | Number in Catch | 100,756 | 92,397 | 1,301 | 194,454 |
| | Standard Error | 2,928 | 2,928 | 421 | |

Appendix A.5. Temporally stratified age and sex composition of coho salmon harvested in the Bering River District commercial common property drift gillnet fishery, 1989.

| | | Brood Year and Age Group | | | | |
|---|---|---|---|---|---|---|
| | | 1986 | 1985 | 1984 | | |
| | | 1.1 | 2.1 | 2.2 | 3.1 | Total |
| Stratum Dates: | 6/19–9/02 | | | | | |
| Sampling Dates: | 8/24 | | | | | |
| Sample Size: | 352 | | | | | |
| Female | Percent of Sample | 9.9 | 20.5 | 0.0 | 0.3 | 30.7 |
| | Number in Catch | 830 | 1,708 | 0 | 24 | 2,563 |
| Male | Percent of Sample | 29.8 | 38.1 | 0.3 | 0.9 | 69.0 |
| | Number in Catch | 2,491 | 3,179 | 24 | 71 | 5,766 |
| Total | Percent of Sample | 39.8 | 58.8 | 0.3 | 1.1 | 100.0 |
| | Number in Catch | 3,322 | 4,912 | 24 | 95 | 8,352 |
| | Standard Error | 218 | 219 | 24 | 47 | |
| Stratum Dates: | 9/11–9/30 | | | | | |
| Sampling Dates: | 9/14 | | | | | |
| Sample Size: | 370 | | | | | |
| Female | Percent of Sample | 20.0 | 32.7 | 0.0 | 0.5 | 53.2 |
| | Number in Catch | 3,720 | 6,083 | 0 | 101 | 9,903 |
| Male | Percent of Sample | 19.2 | 27.6 | 0.0 | 0.0 | 46.8 |
| | Number in Catch | 3,569 | 5,128 | 0 | 0 | 8,697 |
| Total | Percent of Sample | 39.2 | 60.3 | 0.0 | 0.5 | 100.0 |
| | Number in Catch | 7,289 | 11,210 | 0 | 101 | 18,600 |
| | Standard Error | 473 | 474 | 0 | 71 | |
| Strata Combined: | 6/19–9/30 | | | | | |
| Sampling Dates: | 8/24,9/14 | | | | | |
| Sample Size: | 722 | | | | | |
| Female | Percent of Sample | 16.9 | 28.9 | 0.0 | 0.5 | 46.3 |
| | Number in Catch | 4,550 | 7,791 | 0 | 124 | 12,466 |
| Male | Percent of Sample | 22.5 | 30.8 | 0.1 | 0.3 | 53.7 |
| | Number in Catch | 6,061 | 8,307 | 24 | 71 | 14,462 |
| Total | Percent of Sample | 39.4 | 59.8 | 0.1 | 0.7 | 100.0 |
| | Number in Catch | 10,611 | 16,122 | 24 | 195 | 26,952 |
| | Standard Error | 521 | 522 | 24 | 85 | |

## APPENDIX B

Subsistence, Personal Use, and Sport Fish Salmon Catches
from the Upper Copper River.

Appendix B.1. Daily catches of sockeye, chinook, and coho salmon in the subsistence and personal use fisheries on the Upper Copper River, 1989. This table does not include catches reported with erroneous or missing dates.

| | Personal Use Catch | | | | | | Subsistence Catch | | | | | | Combined Catches | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sockeye | | Chinook | | Coho | | Sockeye | | Chinook | | Coho | | Sockeye | | Chinook | | Coho | |
| Date | Daily | Cumm. | Daily | Cumm. | Daily | Cumm. | Daily | Cumm. | Daily | Cumm. | Daily | Cumm. | Daily | Cumm. | Daily | Cumm. | Daily | Cumm. |
| 01-Jun | 27 | 27 | 0 | 0 | 0 | 0 | 102 | 102 | 2 | 2 | 0 | 0 | 129 | 129 | 2 | 2 | 0 | 0 |
| 02-Jun | 1044 | 1071 | 59 | 59 | 0 | 0 | 267 | 369 | 5 | 7 | 5 | 5 | 1311 | 1440 | 64 | 66 | 5 | 5 |
| 03-Jun | 2780 | 3851 | 164 | 223 | 0 | 0 | 225 | 594 | 4 | 11 | 0 | 5 | 3005 | 4445 | 168 | 234 | 0 | 5 |
| 04-Jun | 1748 | 5599 | 103 | 326 | 0 | 0 | 195 | 789 | 6 | 17 | 0 | 5 | 1943 | 6388 | 109 | 343 | 0 | 5 |
| 05-Jun | 47 | 5646 | 3 | 329 | 0 | 0 | 344 | 1133 | 17 | 34 | 0 | 5 | 391 | 6779 | 20 | 363 | 0 | 5 |
| 06-Jun | 26 | 5672 | 5 | 334 | 0 | 0 | 386 | 1519 | 10 | 44 | 0 | 5 | 412 | 7191 | 15 | 378 | 0 | 5 |
| 07-Jun | 4 | 5676 | 0 | 334 | 0 | 0 | 221 | 1740 | 9 | 53 | 0 | 5 | 225 | 7416 | 9 | 387 | 0 | 5 |
| 08-Jun | 332 | 6008 | 13 | 347 | 0 | 0 | 424 | 2164 | 4 | 57 | 0 | 5 | 756 | 8172 | 17 | 404 | 0 | 5 |
| 09-Jun | 1729 | 7737 | 85 | 432 | 0 | 0 | 283 | 2447 | 13 | 70 | 0 | 5 | 2012 | 10184 | 98 | 502 | 0 | 5 |
| 10-Jun | 3264 | 11001 | 263 | 695 | 0 | 0 | 860 | 3307 | 17 | 87 | 0 | 5 | 4124 | 14308 | 280 | 782 | 0 | 5 |
| 11-Jun | 2014 | 13015 | 164 | 859 | 0 | 0 | 201 | 3508 | 14 | 101 | 0 | 5 | 2215 | 16523 | 178 | 960 | 0 | 5 |
| 12-Jun | 17 | 13032 | 3 | 862 | 0 | 0 | 298 | 3806 | 5 | 106 | 0 | 5 | 315 | 16838 | 8 | 968 | 0 | 5 |
| 13-Jun | 352 | 13384 | 19 | 881 | 0 | 0 | 606 | 4412 | 8 | 114 | 0 | 5 | 958 | 17796 | 27 | 995 | 0 | 5 |
| 14-Jun | 323 | 13707 | 18 | 899 | 0 | 0 | 549 | 4961 | 5 | 119 | 0 | 5 | 872 | 18668 | 23 | 1018 | 0 | 5 |
| 15-Jun | 597 | 14304 | 43 | 942 | 0 | 0 | 1076 | 6037 | 19 | 138 | 0 | 5 | 1673 | 20341 | 62 | 1080 | 0 | 5 |
| 16-Jun | 798 | 15102 | 84 | 1026 | 0 | 0 | 236 | 6273 | 8 | 146 | 0 | 5 | 1034 | 21375 | 92 | 1172 | 0 | 5 |
| 17-Jun | 1126 | 16228 | 93 | 1119 | 0 | 0 | 486 | 6759 | 15 | 161 | 0 | 5 | 1612 | 22987 | 108 | 1280 | 0 | 5 |
| 18-Jun | 1329 | 17557 | 78 | 1197 | 0 | 0 | 310 | 7069 | 9 | 170 | 0 | 5 | 1639 | 24626 | 87 | 1367 | 0 | 5 |
| 19-Jun | 200 | 17757 | 9 | 1206 | 0 | 0 | 408 | 7477 | 14 | 184 | 0 | 5 | 608 | 25234 | 23 | 1390 | 0 | 5 |
| 20-Jun | 500 | 18257 | 31 | 1237 | 0 | 0 | 680 | 8157 | 29 | 213 | 0 | 5 | 1180 | 26414 | 60 | 1450 | 0 | 5 |
| 21-Jun | 435 | 18692 | 22 | 1259 | 0 | 0 | 475 | 8632 | 13 | 226 | 0 | 5 | 910 | 27324 | 35 | 1485 | 0 | 5 |
| 22-Jun | 656 | 19348 | 38 | 1297 | 0 | 0 | 361 | 8993 | 9 | 235 | 0 | 5 | 1017 | 28341 | 47 | 1532 | 0 | 5 |
| 23-Jun | 716 | 20064 | 56 | 1353 | 0 | 0 | 114 | 9107 | 0 | 235 | 0 | 5 | 830 | 29171 | 56 | 1588 | 0 | 5 |
| 24-Jun | 692 | 20756 | 69 | 1422 | 0 | 0 | 220 | 9327 | 7 | 242 | 0 | 5 | 912 | 30083 | 76 | 1664 | 0 | 5 |
| 25-Jun | 168 | 20924 | 16 | 1438 | 0 | 0 | 283 | 9610 | 24 | 266 | 0 | 5 | 451 | 30534 | 40 | 1704 | 0 | 5 |
| 26-Jun | 68 | 20992 | 7 | 1445 | 0 | 0 | 301 | 9911 | 9 | 275 | 0 | 5 | 369 | 30903 | 16 | 1720 | 0 | 5 |
| 27-Jun | 367 | 21359 | 23 | 1468 | 0 | 0 | 206 | 10117 | 15 | 290 | 0 | 5 | 573 | 31476 | 38 | 1758 | 0 | 5 |
| 28-Jun | 567 | 21926 | 33 | 1501 | 0 | 0 | 344 | 10461 | 12 | 302 | 0 | 5 | 911 | 32387 | 45 | 1803 | 0 | 5 |
| 29-Jun | 469 | 22395 | 22 | 1523 | 0 | 0 | 227 | 10688 | 18 | 320 | 0 | 5 | 696 | 33083 | 40 | 1843 | 0 | 5 |
| 30-Jun | 667 | 23062 | 45 | 1568 | 0 | 0 | 955 | 11643 | 25 | 345 | 0 | 5 | 1622 | 34705 | 70 | 1913 | 0 | 5 |

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Appendix B.1. (pg. 2 of 4)

| | Personal Use Catch | | | | | | Subsistence Catch | | | | | | Combined Catches | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sockeye | | Chinook | | Coho | | Sockeye | | Chinook | | Coho | | Sockeye | | Chinook | | Coho | |
| Date | Daily | Cumm. | Daily | Cumm. | Daily | Cumm. | Daily | Cumm. | Daily | Cumm. | Daily | Cumm. | Daily | Cumm. | Daily | Cumm. | Daily | Cumm. |
| 01-Jul | 877 | 23939 | 43 | 1611 | 0 | 0 | 237 | 11880 | 10 | 355 | 0 | 5 | 1114 | 35819 | 53 | 1966 | 0 | 5 |
| 02-Jul | 579 | 24518 | 45 | 1656 | 0 | 0 | 525 | 12405 | 41 | 396 | 0 | 5 | 1104 | 36923 | 86 | 2052 | 0 | 5 |
| 03-Jul | 397 | 24915 | 34 | 1690 | 0 | 0 | 209 | 12614 | 27 | 423 | 0 | 5 | 606 | 37529 | 61 | 2113 | 0 | 5 |
| 04-Jul | 319 | 25234 | 20 | 1710 | 0 | 0 | 268 | 12882 | 19 | 442 | 0 | 5 | 587 | 38116 | 39 | 2152 | 0 | 5 |
| 05-Jul | 200 | 25434 | 15 | 1725 | 0 | 0 | 295 | 13177 | 5 | 447 | 0 | 5 | 495 | 38611 | 20 | 2172 | 0 | 5 |
| 06-Jul | 509 | 25943 | 28 | 1753 | 0 | 0 | 285 | 13462 | 14 | 461 | 0 | 5 | 794 | 39405 | 42 | 2214 | 0 | 5 |
| 07-Jul | 500 | 26443 | 24 | 1777 | 0 | 0 | 311 | 13773 | 14 | 475 | 0 | 5 | 811 | 40216 | 38 | 2252 | 0 | 5 |
| 08-Jul | 767 | 27210 | 42 | 1819 | 0 | 0 | 278 | 14051 | 20 | 495 | 0 | 5 | 1045 | 41261 | 62 | 2314 | 0 | 5 |
| 09-Jul | 716 | 27926 | 48 | 1867 | 0 | 0 | 92 | 14143 | 16 | 511 | 0 | 5 | 808 | 42069 | 64 | 2378 | 0 | 5 |
| 10-Jul | 127 | 28053 | 6 | 1873 | 0 | 0 | 491 | 14634 | 18 | 529 | 0 | 5 | 618 | 42687 | 24 | 2402 | 0 | 5 |
| 11-Jul | 251 | 28304 | 4 | 1877 | 0 | 0 | 206 | 14840 | 3 | 532 | 0 | 5 | 457 | 43144 | 7 | 2409 | 0 | 5 |
| 12-Jul | 110 | 28414 | 4 | 1881 | 0 | 0 | 310 | 15150 | 13 | 545 | 0 | 5 | 420 | 43564 | 17 | 2426 | 0 | 5 |
| 13-Jul | 46 | 28460 | 3 | 1884 | 0 | 0 | 163 | 15313 | 7 | 552 | 0 | 5 | 209 | 43773 | 10 | 2436 | 0 | 5 |
| 14-Jul | 181 | 28641 | 16 | 1900 | 0 | 0 | 318 | 15631 | 21 | 573 | 0 | 5 | 499 | 44272 | 37 | 2473 | 0 | 5 |
| 15-Jul | 316 | 28957 | 40 | 1940 | 0 | 0 | 632 | 16263 | 15 | 588 | 0 | 5 | 948 | 45220 | 55 | 2528 | 0 | 5 |
| 16-Jul | 422 | 29379 | 48 | 1988 | 0 | 0 | 196 | 16459 | 19 | 607 | 0 | 5 | 618 | 45838 | 67 | 2595 | 0 | 5 |
| 17-Jul | 277 | 29656 | 15 | 2003 | 0 | 0 | 275 | 16734 | 9 | 616 | 0 | 5 | 552 | 46390 | 24 | 2619 | 0 | 5 |
| 18-Jul | 756 | 30412 | 8 | 2011 | 0 | 0 | 278 | 17012 | 5 | 621 | 0 | 5 | 1034 | 47424 | 13 | 2632 | 0 | 5 |
| 19-Jul | 455 | 30867 | 4 | 2015 | 0 | 0 | 254 | 17266 | 7 | 628 | 0 | 5 | 709 | 48133 | 11 | 2643 | 0 | 5 |
| 20-Jul | 1138 | 32005 | 23 | 2038 | 0 | 0 | 524 | 17790 | 6 | 634 | 0 | 5 | 1662 | 49795 | 29 | 2672 | 0 | 5 |
| 21-Jul | 562 | 32567 | 7 | 2045 | 0 | 0 | 316 | 18106 | 12 | 646 | 0 | 5 | 878 | 50673 | 19 | 2691 | 0 | 5 |
| 22-Jul | 1220 | 33787 | 28 | 2073 | 0 | 0 | 472 | 18578 | 15 | 661 | 0 | 5 | 1692 | 52365 | 43 | 2734 | 0 | 5 |
| 23-Jul | 658 | 34445 | 5 | 2078 | 0 | 0 | 113 | 18691 | 1 | 662 | 0 | 5 | 771 | 53136 | 6 | 2740 | 0 | 5 |
| 24-Jul | 586 | 35031 | 3 | 2081 | 0 | 0 | 297 | 18988 | 6 | 668 | 0 | 5 | 883 | 54019 | 9 | 2749 | 0 | 5 |
| 25-Jul | 984 | 36015 | 13 | 2094 | 0 | 0 | 545 | 19533 | 4 | 672 | 0 | 5 | 1529 | 55548 | 17 | 2766 | 0 | 5 |
| 26-Jul | 749 | 36764 | 2 | 2096 | 0 | 0 | 388 | 19921 | 3 | 675 | 0 | 5 | 1137 | 56685 | 5 | 2771 | 0 | 5 |
| 27-Jul | 572 | 37336 | 10 | 2106 | 0 | 0 | 339 | 20260 | 4 | 679 | 0 | 5 | 911 | 57596 | 14 | 2785 | 0 | 5 |
| 28-Jul | 925 | 38261 | 4 | 2110 | 0 | 0 | 198 | 20458 | 0 | 679 | 0 | 5 | 1123 | 58719 | 4 | 2789 | 0 | 5 |
| 29-Jul | 1665 | 39926 | 9 | 2119 | 0 | 0 | 237 | 20695 | 1 | 680 | 0 | 5 | 1902 | 60621 | 10 | 2799 | 0 | 5 |
| 30-Jul | 744 | 40670 | 3 | 2122 | 0 | 0 | 439 | 21134 | 11 | 691 | 0 | 5 | 1183 | 61804 | 14 | 2813 | 0 | 5 |
| 31-Jul | 309 | 40979 | 2 | 2124 | 0 | 0 | 384 | 21518 | 13 | 704 | 0 | 5 | 693 | 62497 | 15 | 2828 | 0 | 5 |

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| | Personal Use Catch | | | | | | Subsistence Catch | | | | | | Combined Catches | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sockeye | | Chinook | | Coho | | Sockeye | | Chinook | | Coho | | Sockeye | | Chinook | | Coho | |
| Date | Daily | Cumm. | Daily | Cumm. | Daily | Cumm. | Daily | Cumm. | Daily | Cumm. | Daily | Cumm. | Daily | Cumm. | Daily | Cumm. | Daily | Cumm. |
| 01-Aug | 259 | 41238 | 0 | 2124 | 0 | 0 | 112 | 21630 | 2 | 706 | 0 | 5 | 371 | 62868 | 2 | 2830 | 0 | 5 |
| 02-Aug | 146 | 41384 | 2 | 2126 | 0 | 0 | 99 | 21729 | 1 | 707 | 0 | 5 | 245 | 63113 | 3 | 2833 | 0 | 5 |
| 03-Aug | 295 | 41679 | 5 | 2131 | 0 | 0 | 132 | 21861 | 3 | 710 | 0 | 5 | 427 | 63540 | 8 | 2841 | 0 | 5 |
| 04-Aug | 636 | 42315 | 0 | 2131 | 0 | 0 | 152 | 22013 | 0 | 710 | 0 | 5 | 788 | 64328 | 0 | 2841 | 0 | 5 |
| 05-Aug | 946 | 43261 | 4 | 2135 | 0 | 0 | 345 | 22358 | 3 | 713 | 0 | 5 | 1291 | 65619 | 7 | 2848 | 0 | 5 |
| 06-Aug | 879 | 44140 | 1 | 2136 | 0 | 0 | 72 | 22430 | 0 | 713 | 0 | 5 | 951 | 66570 | 1 | 2849 | 0 | 5 |
| 07-Aug | 540 | 44680 | 1 | 2137 | 0 | 0 | 178 | 22608 | 3 | 716 | 0 | 5 | 718 | 67288 | 4 | 2853 | 0 | 5 |
| 08-Aug | 434 | 45114 | 0 | 2137 | 0 | 0 | 132 | 22740 | 0 | 716 | 0 | 5 | 566 | 67854 | 0 | 2853 | 0 | 5 |
| 09-Aug | 168 | 45282 | 0 | 2137 | 0 | 0 | 233 | 22973 | 4 | 720 | 0 | 5 | 401 | 68255 | 4 | 2857 | 0 | 5 |
| 10-Aug | 565 | 45847 | 0 | 2137 | 0 | 0 | 306 | 23279 | 0 | 720 | 0 | 5 | 871 | 69126 | 0 | 2857 | 0 | 5 |
| 11-Aug | 599 | 46446 | 3 | 2140 | 0 | 0 | 241 | 23520 | 5 | 725 | 0 | 5 | 840 | 69966 | 8 | 2865 | 0 | 5 |
| 12-Aug | 824 | 47270 | 2 | 2142 | 0 | 0 | 63 | 23583 | 1 | 726 | 0 | 5 | 887 | 70853 | 3 | 2868 | 0 | 5 |
| 13-Aug | 401 | 47671 | 0 | 2142 | 0 | 0 | 88 | 23671 | 0 | 726 | 0 | 5 | 489 | 71342 | 0 | 2868 | 0 | 5 |
| 14-Aug | 160 | 47831 | 0 | 2142 | 0 | 0 | 254 | 23925 | 6 | 732 | 0 | 5 | 414 | 71756 | 6 | 2874 | 0 | 5 |
| 15-Aug | 292 | 48123 | 0 | 2142 | 0 | 0 | 340 | 24265 | 0 | 732 | 4 | 9 | 632 | 72388 | 0 | 2874 | 4 | 9 |
| 16-Aug | 268 | 48391 | 0 | 2142 | 0 | 0 | 272 | 24537 | 0 | 732 | 0 | 9 | 540 | 72928 | 0 | 2874 | 0 | 9 |
| 17-Aug | 450 | 48841 | 6 | 2148 | 3 | 3 | 398 | 24935 | 0 | 732 | 0 | 9 | 848 | 73776 | 6 | 2880 | 3 | 12 |
| 18-Aug | 424 | 49265 | 0 | 2148 | 0 | 3 | 350 | 25285 | 0 | 732 | 0 | 9 | 774 | 74550 | 0 | 2880 | 0 | 12 |
| 19-Aug | 713 | 49978 | 0 | 2148 | 0 | 3 | 111 | 25396 | 0 | 732 | 0 | 9 | 824 | 75374 | 0 | 2880 | 0 | 12 |
| 20-Aug | 309 | 50287 | 0 | 2148 | 1 | 4 | 131 | 25527 | 0 | 732 | 0 | 9 | 440 | 75814 | 0 | 2880 | 1 | 13 |
| 21-Aug | 185 | 50472 | 0 | 2148 | 3 | 7 | 49 | 25576 | 1 | 733 | 0 | 9 | 234 | 76048 | 1 | 2881 | 3 | 16 |
| 22-Aug | 424 | 50896 | 1 | 2149 | 30 | 37 | 314 | 25890 | 0 | 733 | 0 | 9 | 738 | 76786 | 1 | 2882 | 30 | 46 |
| 23-Aug | 129 | 51025 | 0 | 2149 | 10 | 47 | 71 | 25961 | 5 | 738 | 0 | 9 | 200 | 76986 | 5 | 2887 | 10 | 56 |
| 24-Aug | 203 | 51228 | 0 | 2149 | 5 | 52 | 15 | 25976 | 0 | 738 | 0 | 9 | 218 | 77204 | 0 | 2887 | 5 | 61 |
| 25-Aug | 272 | 51500 | 2 | 2151 | 4 | 56 | 31 | 26007 | 0 | 738 | 1 | 10 | 303 | 77507 | 2 | 2889 | 5 | 66 |
| 26-Aug | 344 | 51844 | 0 | 2151 | 9 | 65 | 2 | 26009 | 0 | 738 | 0 | 10 | 346 | 77853 | 0 | 2889 | 9 | 75 |
| 27-Aug | 228 | 52072 | 0 | 2151 | 8 | 73 | 8 | 26017 | 0 | 738 | 0 | 10 | 236 | 78089 | 0 | 2889 | 8 | 83 |
| 28-Aug | 77 | 52149 | 0 | 2151 | 4 | 77 | 113 | 26130 | 2 | 740 | 0 | 10 | 190 | 78279 | 2 | 2891 | 4 | 87 |
| 29-Aug | 163 | 52312 | 3 | 2154 | 16 | 93 | 5 | 26135 | 0 | 740 | 0 | 10 | 168 | 78447 | 3 | 2894 | 16 | 103 |
| 30-Aug | 165 | 52477 | 0 | 2154 | 20 | 113 | 224 | 26359 | 4 | 744 | 0 | 10 | 389 | 78836 | 4 | 2898 | 20 | 123 |
| 31-Aug | 132 | 52609 | 0 | 2154 | 23 | 136 | 19 | 26378 | 0 | 744 | 0 | 10 | 151 | 78987 | 0 | 2898 | 23 | 146 |

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| | Personal Use Catch | | | | | | Subsistence Catch | | | | | | Combined Catches | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sockeye | | Chinook | | Coho | | Sockeye | | Chinook | | Coho | | Sockeye | | Chinook | | Coho | |
| Date | Daily | Cumm. | Daily | Cumm. | Daily | Cumm. | Daily | Cumm. | Daily | Cumm. | Daily | Cumm. | Daily | Cumm. | Daily | Cumm. | Daily | Cumm. |
| 01-Sep | 132 | 52741 | 0 | 2154 | 16 | 152 | 0 | 26378 | 0 | 744 | 0 | 10 | 132 | 79119 | 0 | 2898 | 16 | 162 |
| 02-Sep | 251 | 52992 | 3 | 2157 | 137 | 289 | 0 | 26378 | 0 | 744 | 0 | 10 | 251 | 79370 | 3 | 2901 | 137 | 299 |
| 03-Sep | 111 | 53103 | 0 | 2157 | 77 | 366 | 0 | 26378 | 0 | 744 | 0 | 10 | 111 | 79481 | 0 | 2901 | 77 | 376 |
| 04-Sep | 19 | 53122 | 0 | 2157 | 15 | 381 | 0 | 26378 | 0 | 744 | 0 | 10 | 19 | 79500 | 0 | 2901 | 15 | 391 |
| 05-Sep | 29 | 53151 | 0 | 2157 | 16 | 397 | 20 | 26398 | 0 | 744 | 0 | 10 | 49 | 79549 | 0 | 2901 | 16 | 407 |
| 06-Sep | 25 | 53176 | 0 | 2157 | 2 | 399 | 38 | 26436 | 0 | 744 | 4 | 14 | 63 | 79612 | 0 | 2901 | 6 | 413 |
| 07-Sep | 1 | 53177 | 0 | 2157 | 3 | 402 | 29 | 26465 | 0 | 744 | 0 | 14 | 30 | 79642 | 0 | 2901 | 3 | 416 |
| 08-Sep | 22 | 53199 | 0 | 2157 | 41 | 443 | 9 | 26474 | 0 | 744 | 0 | 14 | 31 | 79673 | 0 | 2901 | 41 | 457 |
| 09-Sep | 20 | 53219 | 0 | 2157 | 32 | 475 | 0 | 26474 | 0 | 744 | 0 | 14 | 20 | 79693 | 0 | 2901 | 32 | 489 |
| 10-Sep | 20 | 53239 | 0 | 2157 | 53 | 528 | 120 | 26594 | 0 | 744 | 0 | 14 | 140 | 79833 | 0 | 2901 | 53 | 542 |
| 11-Sep | 10 | 53249 | 0 | 2157 | 10 | 538 | 2 | 26596 | 0 | 744 | 14 | 28 | 12 | 79845 | 0 | 2901 | 24 | 566 |
| 12-Sep | 6 | 53255 | 0 | 2157 | 33 | 571 | 4 | 26600 | 0 | 744 | 5 | 33 | 10 | 79855 | 0 | 2901 | 38 | 604 |
| 13-Sep | 19 | 53274 | 0 | 2157 | 2 | 573 | 5 | 26605 | 0 | 744 | 19 | 52 | 24 | 79879 | 0 | 2901 | 21 | 625 |
| 14-Sep | 22 | 53296 | 0 | 2157 | 28 | 601 | 0 | 26605 | 0 | 744 | 0 | 52 | 22 | 79901 | 0 | 2901 | 28 | 653 |
| 15-Sep | 48 | 53344 | 3 | 2160 | 48 | 649 | 30 | 26635 | 0 | 744 | 0 | 52 | 78 | 79979 | 3 | 2904 | 48 | 701 |
| 16-Sep | 21 | 53365 | 0 | 2160 | 56 | 705 | 0 | 26635 | 0 | 744 | 0 | 52 | 21 | 80000 | 0 | 2904 | 56 | 757 |
| 17-Sep | 16 | 53381 | 0 | 2160 | 66 | 771 | 0 | 26635 | 0 | 744 | 2 | 54 | 16 | 80016 | 0 | 2904 | 68 | 825 |
| 18-Sep | 0 | 53381 | 0 | 2160 | 0 | 771 | 1 | 26636 | 0 | 744 | 8 | 62 | 1 | 80017 | 0 | 2904 | 8 | 833 |
| 19-Sep | 0 | 53381 | 0 | 2160 | 16 | 787 | 24 | 26660 | 0 | 744 | 8 | 70 | 24 | 80041 | 0 | 2904 | 24 | 857 |
| 20-Sep | 0 | 53381 | 0 | 2160 | 0 | 787 | 11 | 26671 | 0 | 744 | 0 | 70 | 11 | 80052 | 0 | 2904 | 0 | 857 |
| 21-Sep | 73 | 53454 | 0 | 2160 | 12 | 799 | 0 | 26671 | 0 | 744 | 0 | 70 | 73 | 80125 | 0 | 2904 | 12 | 869 |
| 22-Sep | 11 | 53465 | 0 | 2160 | 16 | 815 | 0 | 26671 | 0 | 744 | 0 | 70 | 11 | 80136 | 0 | 2904 | 16 | 885 |
| 23-Sep | 0 | 53465 | 0 | 2160 | 6 | 821 | 0 | 26671 | 0 | 744 | 0 | 70 | 0 | 80136 | 0 | 2904 | 6 | 891 |
| 24-Sep | 0 | 53465 | 0 | 2160 | 0 | 821 | 5 | 26676 | 0 | 744 | 0 | 70 | 5 | 80141 | 0 | 2904 | 0 | 891 |
| 25-Sep | 0 | 53465 | 0 | 2160 | 0 | 821 | 0 | 26676 | 0 | 744 | 0 | 70 | 0 | 80141 | 0 | 2904 | 0 | 891 |
| 26-Sep | 0 | 53465 | 0 | 2160 | 0 | 821 | 0 | 26676 | 0 | 744 | 0 | 70 | 0 | 80141 | 0 | 2904 | 0 | 891 |
| 27-Sep | 0 | 53465 | 0 | 2160 | 0 | 821 | 0 | 26676 | 0 | 744 | 0 | 70 | 0 | 80141 | 0 | 2904 | 0 | 891 |
| 28-Sep | 0 | 53465 | 0 | 2160 | 0 | 821 | 2 | 26678 | 0 | 744 | 0 | 70 | 2 | 80143 | 0 | 2904 | 0 | 891 |
| 29-Sep | 0 | 53465 | 0 | 2160 | 2 | 823 | 0 | 26678 | 0 | 744 | 0 | 70 | 0 | 80143 | 0 | 2904 | 2 | 893 |
| 30-Sep | 40 | 53505 | 0 | 2160 | 2 | 825 | 38 | 26716 | 0 | 744 | 0 | 70 | 78 | 80221 | 0 | 2904 | 2 | 895 |
| Total | 53505 | | 2160 | | 825 | | 26716 | | 744 | | 70 | | 80221 | | 2904 | | 895 | |

Appendix B.2. Temporally stratified age and sex composition of sockeye salmon harvested in upper Copper River personal use and subsistence fisheries, 1989.

| | | Brood Year and Age Group | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1987 | 1986 | | 1985 | | | 1984 | | 1983 | | |
| | | 0.1 | 0.2 | 1.1 | 0.3 | 1.2 | 2.1 | 1.3 | 2.2 | 1.4 | 2.3 | Total |
| Stratum Dates: | 6/1–7/14 | | | | | | | | | | | |
| Sampling Dates: | 6/2–7/9 | | | | | | | | | | | |
| Sample Size: | 1,261 | | | | | | | | | | | |
| Female | Percent of Sample | 0.0 | 0.2 | 0.0 | 0.4 | 5.2 | 0.1 | 33.0 | 0.9 | 0.1 | 2.6 | 42.4 |
| | Number in Catch | 0 | 91 | 0 | 170 | 2,290 | 28 | 14,606 | 400 | 57 | 1,152 | 18,793 |
| Male | Percent of Sample | 0.0 | 0.0 | 0.1 | 0.7 | 7.2 | 0.0 | 44.1 | 0.8 | 0.1 | 2.3 | 55.4 |
| | Number in Catch | 0 | 0 | 63 | 311 | 3,205 | 0 | 19,535 | 372 | 28 | 1,026 | 24,540 |
| Total | Percent of Sample | 0.0 | 0.2 | 0.1 | 1.1 | 13.0 | 0.1 | 78.7 | 1.7 | 0.2 | 4.9 | 100.0 |
| | Number in Catch | 0 | 91 | 63 | 481 | 5,747 | 28 | 34,827 | 772 | 85 | 2,178 | 44,272 |
| | Standard Error | 0 | 69 | 63 | 116 | 457 | 28 | 564 | 206 | 49 | 319 | |
| Stratum Dates: | 7/15–9/30 | | | | | | | | | | | |
| Sampling Dates: | 7/16–7/30 | | | | | | | | | | | |
| Sample Size: | 445 | | | | | | | | | | | |
| Female | Percent of Sample | 0.0 | 0.0 | 0.2 | 0.2 | 20.8 | 0.0 | 21.3 | 0.0 | 0.0 | 0.2 | 42.7 |
| | Number in Catch | 0 | 0 | 83 | 83 | 7,466 | 0 | 7,653 | 0 | 0 | 83 | 15,368 |
| Male | Percent of Sample | 0.2 | 0.2 | 1.8 | 0.0 | 33.3 | 0.0 | 21.2 | 0.0 | 0.0 | 0.0 | 56.8 |
| | Number in Catch | 83 | 83 | 659 | 0 | 11,971 | 0 | 7,623 | 0 | 0 | 0 | 20,418 |
| Total | Percent of Sample | 0.2 | 0.2 | 2.1 | 0.2 | 54.3 | 0.0 | 42.7 | 0.0 | 0.0 | 0.2 | 100.0 |
| | Number in Catch | 83 | 83 | 742 | 83 | 19,520 | 0 | 15,356 | 0 | 0 | 83 | 35,949 |
| | Standard Error | 83 | 83 | 241 | 83 | 836 | 0 | 814 | 0 | 0 | 83 | |
| Strata Combined: | 6/1–9/30 | Season Total | | | | | | | | | | |
| Sampling Dates: | 6/2–7/30 | | | | | | | | | | | |
| Sample Size: | 1,706 | | | | | | | | | | | |
| Female | Percent of Sample | 0.0 | 0.1 | 0.1 | 0.3 | 12.2 | 0.0 | 27.7 | 0.5 | 0.1 | 1.5 | 42.6 |
| | Number in Catch | 0 | 91 | 83 | 252 | 9,756 | 28 | 22,259 | 400 | 57 | 1,235 | 34,161 |
| Male | Percent of Sample | 0.1 | 0.1 | 0.9 | 0.4 | 18.9 | 0.0 | 33.9 | 0.5 | 0.0 | 1.3 | 56.0 |
| | Number in Catch | 83 | 83 | 722 | 311 | 15,176 | 0 | 27,158 | 372 | 28 | 1,026 | 44,958 |
| Total | Percent of Sample | 0.1 | 0.2 | 1.0 | 0.7 | 31.5 | 0.0 | 62.6 | 1.0 | 0.1 | 2.8 | 100.0 |
| | Number in Catch | 83 | 174 | 805 | 563 | 25,267 | 28 | 50,184 | 772 | 85 | 2,261 | 80,221 |
| | Standard Error | 83 | 108 | 249 | 142 | 953 | 28 | 990 | 206 | 49 | 330 | |

Appendix B.3. Estimated age and sex composition of chinook salmon sport fishing harvests at several locations in the Upper Copper River area, 1989.

| | | Brood Year and Age Group | | | | | |
|---|---|---|---|---|---|---|---|
| | | 1985 | 1984 | 1983 | | 1982 | |
| | | 1.2 | 1.3 | 1.4 | 2.3 | 1.5 | Total |
| **GULKANA RIVER** | | | | | | | |
| Sample Size: | 63 | | | | | | |
| Female | Percent of Sample | 0.0 | 17.5 | 34.9 | 0.0 | 3.2 | 55.6 |
| | Number in Catch | 0 | 1,707 | 3,415 | 0 | 310 | 5,432 |
| Male | Percent of Sample | 1.6 | 9.5 | 31.7 | 0.0 | 1.6 | 44.4 |
| | Number in Catch | 155 | 931 | 3,104 | 0 | 155 | 4,346 |
| Total | Percent of Sample | 1.6 | 27.0 | 66.7 | 0.0 | 4.8 | 100.0 |
| | Number in Catch | 155 | 2,639 | 6,519 | 0 | 466 | 9,778 |
| | Standard Error | 155 | 551 | 585 | 0 | 264 | |
| **KLUTINA RIVER** | | | | | | | |
| Sample Size: | 176 | | | | | | |
| Female | Percent of Sample | 0.0 | 10.2 | 36.9 | 1.7 | 0.0 | 48.9 |
| | Number in Catch | 0 | 67 | 241 | 11 | 0 | 319 |
| Male | Percent of Sample | 1.7 | 16.5 | 32.4 | 0.6 | 0.0 | 51.1 |
| | Number in Catch | 11 | 107 | 211 | 4 | 0 | 333 |
| Total | Percent of Sample | 1.7 | 26.7 | 69.3 | 2.3 | 0.0 | 100.0 |
| | Number in Catch | 11 | 174 | 452 | 15 | 0 | 652 |
| | Standard Error | 6 | 22 | 23 | 7 | 0 | |
| **COMBINED LOCATIONS** | | | | | | | |
| Sample Size: | 239 | | | | | | |
| Female | Percent of Sample | 0.0 | 17.0 | 35.0 | 0.1 | 3.0 | 55.1 |
| | Number in Catch | 0 | 1,774 | 3,655 | 11 | 310 | 5,751 |
| Male | Percent of Sample | 1.6 | 10.0 | 31.8 | 0.0 | 1.5 | 44.9 |
| | Number in Catch | 166 | 1,039 | 3,315 | 4 | 155 | 4,679 |
| Total | Percent of Sample | 1.6 | 27.0 | 66.8 | 0.1 | 4.5 | 100.0 |
| | Number in Catch | 166 | 2,813 | 6,971 | 15 | 466 | 10,430 |
| | Standard Error | 155 | 552 | 586 | 7 | 264 | |

## APPENDIX C

Salmon Escapements to Coastal Streams
of the Copper River Delta and the Bering River.

Appendix C.1. Aerial escapement indices for sockeye salmon returning to the Copper River Delta and the Bering River by date and location, 1989.

| Area | Survey[a] System/Drainage | Site | Survey Dates 8 Jun | 17 Jun | 27 Jun | 4 Jul | 11 Jul | 18 Jul | 27 Jul | 9 Aug | 14 Aug | 21 Aug |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Copper River Delta | Eyak River | Eyak River | NS | 0 | 0 | NC | NC | 0 | NS | NS | 0 | NS |
| | | West Shore Beaches | 0 | 35 + | 100 + | 210 | 190 | 440 | 940 | 1,420 | 1,430 * | 520 + |
| | | Middle Arm Beaches [d] | 30 | 40 | 70 | 120 | 140 | 500 | 430 | 2,000 | 2,500 * | 1,900 |
| | | North Shore Beaches | 0 | 0 | NC | NC | 20 | 80 + | 10 | 20 | 10 | NS |
| | | Hatchery Creek Delta [d] | 0 | 25 | 150 | 330 * | 50 | 0 | 0 | 0 | 90 | 0 |
| | | Hatchery Creek [d] | 0 | 0 | 135 | 220 * | 290 | 420 | 300 | 90 | 50 | 80 |
| | | Power Creek Delta | NS | NS | NS | NS | NS | NS | 0 | NS | NS | NS |
| | | Power Creek | NS | NS | NS | NS | NS | NS | 10 | NS | NS | NS |
| | Ibek Creek | Ibek Creek | NS | NS | NS | NS | NS | NS | NS | 0 | 120 * | 80 |
| | Alganik Slough | Alganik Slough | NS | NS | NS | NS | NS | NS | NS | NS | NS | 0 |
| | | McKinley Lake | 0 | 0 | 0 | 300 | 3,000 | 3,600 | 4,700 | 6,300 * | 3,510 | 100 |
| | | Salmon Creek – West Fork | NS | NS | 0 | 0 | 0 | 0 | 150 | 600 * | 1,050 | 400 + |
| | | Salmon Creek – East Fork | NS | NS | 0 | 0 | 0 | 0 | 80 | 30 * | 160 | 0 |
| | 26/27 Mile Creek | | 0 | 0 | 480 | 900 | 3,020 * | 1,050 | 1,640 | 2,100 | 930 | 360 |
| | 39 Mile Creek | | NS | NS | 120 | 0 | 1,970 | 5,140 | 5,200 + | 6,730 + | 7,420 + * | 2,900 + |
| | Goat Mountain Creek | | NS | NS | 0 | 0 | 50 | NC | 1,400 | 2,200 | 3,150 * | NS |
| | Pleasant Creek | | NS | 855 | 850 | 450 | 990 + * | 450 + | 20 | 20 | 0 | 0 |
| | Martin River | Martin River – Lower | 0 | 12 | 0 | 100 | 170 | 180 | 93 | 60 | 33 | 0 |
| | | Ragged Point River | NS | NS | 130 | 950 | 2,320 | 950 | 400 | 820 * | 690 | 10 |
| | | Ragged Point Lake Outlet | NS | NS | 0 | 0 | 30 | 150 | 1,300 | 300 * | 400 | 300 |
| | | Ragged Point Lake | NS | NS | NS | 0 | 0 | 1,000 | 100 | 3,300 * | 2,400 | 3,000 |
| | | Martin River – Upper | 0 | 85 | 90 | 680 | 750 | 420 | 932 | 360 | 805 | 411 |
| | | Martin Lake Outlet | 0 | 170 | 70 | 200 | 150 | 170 | 400 | 2,400 * | 300 | 700 |
| | | Martin Lake [d] | 0 | 340 | 1,770 | 3,400 | 1,975 | 2,800 * | 750 | 1,130 | 2,800 | 600 |
| | | Martin Lake Feeders | 0 | 0 | 260 | 1,200 | 2,400 | 2,650 * | 1,030 | 490 | 70 | 0 |
| | | Pothole River | NS | 0 | 30 | 350 | 250 | 350 | 210 | 100 | 200 | 200 |
| | | Pothole Lake Outlet | NS | 0 | 0 | 0 | 0 | 120 | 500 | 0 | 0 | 0 |
| | | Pothole Lake | NS | 0 | 0 | 0 | 0 | 0 | 100 | 1,200 | 20 | 650 |
| | | Little Martin Lk Outlet | 0 | 0 | 0 | 0 | 25 | 30 | 10 | 0 * | 0 | 0 |
| | | Little Martin Lake | NS | 0 | 350 | 100 + | 700 | 1,040 | 2,340 | 3,030 * | 920 | 2,200 |
| | | Tokun Springs | NS | 0 | 60 | 0 | 115 | 250 | 400 | 420 | 350 | 450 * |
| | | Tokun River [d] | 0 | 60 | 240 | 300 | 380 | 290 | 2,000 * | 1,420 | 510 | 490 |
| | | Tokun Lake Outlet [d] | 0 | 0 | 250 | 50 + | 0 | 0 | 300 * | 500 | 0 | 0 |
| | | Tokun Lake [d] | 0 | 70 | 200 | 500 + | 550 | 600 | 2,200 * | 1,500 | 130 | 2,000 |
| | Martin River Slough | | 0 | 0 | 2,250 | 1,740 | 1,900 | 910 | 3,010 * | 2,430 | 810 | 140 |
| Bering River Area | Bering River | Bering River | 0 | NC | 0 | 50 | 30 | 40 | 350 | 800 * | 100 | 50 |
| | | Bering Lake | 0 | 580 | 2,490 | 13,500 * | 9,650 | 5,430 | 3,740 | 590 | 260 | 90 |
| | | Dick Creek | 0 | NS | 15 | 30 * | 800 | 4,000 + | 6,000 | 8,030 | 2,760 | 990 |
| | | Shepherd Creek – Lagoon | 0 | 180 + | 210 | 0 | 50 + | 0 | 0 | NC | 0 | 0 |
| | | Shepherd Creek | NS | NS | 0 | 0 | 0 | 60 | 50 | 90 + * | 100 | 40 + |
| | | Carbon Creek | NS | NS | 0 | 0 | 0 | 20 | 30 | 250 * | 50 | 50 |
| | | Maxwell Creek | NS | NS | NS | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Trout Creek | NS | NS | NS | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Clear Creek | NS | NS | NS | 0 | 50 | 220 | 250 * | 200 | 60 | 0 |
| | | Kushtaka Lake | NS | NS | NS | 0 | 0 | 0 | 75 | 320 + | 730 * | 80 |
| | | Shokum Creek | NS | NS | NS | 0 | 0 | 0 | 15 | 500 + | 800 * | 150 |
| | Katalla River | | 0 | 0 | 0 | 220 | 330 | 800 | 3,320 | 6,850 SP* | 3,450 SP | 200 |
| Copper River Delta Total | | | 30 | 1,692 | 7,605 | 12,100 | 21,435 | 23,590 | 30,955 | 40,970 | 30,858 | 17,491 |
| Bering River Area Total | | | 0 | 760 | 2,715 | 13,800 | 10,910 | 10,570 | 13,830 | 17,630 | 8,310 | 1,650 |
| Total | | | 30 | 2,452 | 10,320 | 25,900 | 32,345 | 34,160 | 44,785 | 58,600 | 39,168 | 19,141 |

–Continued–

Appendix C.1. (Pg 2 of 2)

| Area | Survey[a] System/Drainage | Site | Survey Dates 3 Sep | 8 Sep | 16 Sep | 30 Sep | 9 Oct | 20 Oct | 30 Oct | Estimated Escapement Site[b] | System[c] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Copper River Delta | Eyak River | Eyak River | NS | NS | NS | NS | NS | NS | NS | 0 | 5,260 |
| | | West Shore Beaches | 70 + | 30 | 500 | 0 | 0 | 0 | 0 | 1,430 | |
| | | Middle Arm Beaches [d] | 2,200 | 2,500 | 1,100 | NC | 0 | 0 | 0 | 2,500 | |
| | | North Shore Beaches | NC | NS | 180 * | NC | 65 | 0 | 0 | 180 | |
| | | Hatchery Creek Delta [d] | NC | 300 | 200 * | 0 | 0 | 0 | 0 | 530 | |
| | | Hatchery Creek [d] | 50 + | 150 | 400 * | 200 | 0 | 0 | 0 | 620 | |
| | | Power Creek Delta | NS | NS | NC | NS | NS | NS | NS | 0 | |
| | | Power Creek | NS | NS | NC | NS | NS | NS | NS | 0 | |
| | Ibek Creek | Ibek Creek | 0 | 40 | 0 | 50 | 0 | 0 | 0 | 120 | 120 |
| | Alganik Slough | Alganik Slough | NS | 0 | NC | NS | 0 | NS | NS | 0 | 6,930 |
| | | McKinley Lake | 50 | 130 | 0 | 100 | 0 | 0 | 0 | 6,300 | |
| | | Salmon Creek – West Fork | 160 + | 230 | 100 | 0 | 0 | 0 | 0 | 600 | |
| | | Salmon Creek – East Fork | NC | 70 | 0 | 0 | 0 | 0 | 0 | 30 | |
| | 26/27 Mile Creek | | 370 | 0 | 125 | 100 | 0 | 0 | 0 | 3,020 | 3,020 |
| | 39 Mile Creek | | 430 + | 1,800 | 0 | 0 | 0 | NS | 0 | 7,420 | 7,420 |
| | Goat Mountain Creek | | NS | 540 | 0 | 0 | 0 | NS | 100 | 3,150 | 3,150 |
| | Pleasant Creek | | NC | 0 | 0 | 0 | 0 | NS | 0 | 990 | 990 |
| | Martin River | Martin River – Lower | 0 | 0 | 0 * | NC | NS | NS | 0 | 0 | 0 |
| | | Ragged Point River | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 820 | 4,420 |
| | | Ragged Point Lake Outlet | 400 | 400 | 20 | 0 | 0 | 0 | 0 | 300 | |
| | | Ragged Point Lake | 3,000 | 2,400 | 1,500 | 3,000 | 250 | 0 | 0 | 3,300 | |
| | | Martin River – Upper | 100 | 300 | 0 * | NC | NS | NC | 0 | 0 | 0 |
| | | Martin Lake Outlet | NC | 0 | 200 | NC | NC | NC | 0 | 2,400 | 7,850 |
| | | Martin Lake [d] | NC | 140 | 350 | 240 | 255 | 80 | 140 | 2,800 | |
| | | Martin Lake Feeders | 0 | 50 | 0 | NC | NC | NC | 0 | 2,650 | |
| | | Pothole River | NC | 50 | 0 * | 0 | 0 | 0 | 0 | 0 | 1,550 |
| | | Pothole Lake Outlet | NC | 50 | 50 * | 0 | 0 | 0 | 0 | 50 | |
| | | Pothole Lake | 400 + | 360 | 1,500 * | 300 | 300 | 0 | 500 | 1,500 | |
| | | Little Martin Lk Outlet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,030 |
| | | Little Martin Lake | 300 + | 1,400 | 900 | 0 | NC | 0 | 0 | 3,030 | |
| | | Tokun Springs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 450 | 4,950 |
| | | Tokun River [d] | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 2,000 | |
| | | Tokun Lake Outlet [d] | 150 | 0 | 0 | 0 | 0 | 0 | 0 | 300 | |
| | | Tokun Lake [d] | 600 | 1,500 | 3,400 | 500 | 0 | 0 + | 0 | 2,200 | |
| | Martin River Slough | | 200 | 0 | 0 | 0 | 0 | 0 | 0 | 3,010 | 3,010 |
| Bering River Area | Bering River | Bering River | NC | 0 | 0 | NC | NS | NS | NS | 800 | 14,330 |
| | | Bering Lake | 20 + | 100 | 0 | 0 | 0 | 0 | 0 | 13,500 | |
| | | Dick Creek | 30 | 30 | 0 | 0 | 0 | 0 | 0 | 30 | |
| | | Shepherd Creek – Lagoon | NC | 0 | NS | NS | NC | NS | NS | 0 | 340 |
| | | Shepherd Creek | NS | 0 | NS | NS | 55 | NS | NS | 90 | |
| | | Carbon Creek | NS | NS | NS | NS | 0 | NS | NS | 250 | |
| | | Maxwell Creek | NS | NS | NS | NS | 0 | NS | NS | 0 | |
| | | Trout Creek | 0 | 0 | NS | NS | 0 | NS | NS | 0 | 0 |
| | | Clear Creek | 0 | 0 | NS | NS | 0 | NS | NS | 250 | 250 |
| | | Kushtaka Lake | 0 | 0 | NS | NS | 0 | NS | NS | 730 | 1,530 |
| | | Shokum Creek | 20 | 15 | NS | NS | 0 | NS | NS | 800 | |
| | Katalla River | | NC | 40 | 0 | 0 | 0 | 0 | 0 | 6,850 | 6,850 |
| Copper River Delta Total | | | 8,580 | 12,540 | 10,525 | 4,490 | 870 | 80 | 740 | | 51,700 |
| Bering River Area Total | | | 70 | 185 | 0 | 0 | 55 | 0 | 0 | | 23,300 |
| Total | | | 8,650 | 12,725 | 10,525 | 4,490 | 925 | 80 | 740 | | 75,000 |

[a] The survey sites represent most of the known sockeye salmon spawning locations in the Copper River Delta and Bering River drainages. Weather permitting, the sites are surveyed weekly. The surveys provide information about the relative strength of escapements among years and within a year, time trends for spawning sites, and the relative escapement strength among sites. The indices are not intended to provide an actual estimate of escapement for the coastal stocks, but they have been used for that purpose in the absence of any other escapement estimating method. The abbreviations used in the table are: NS = no survey, NC = surveyed but no count due to poor conditions, and SP = Possible species confusion. The + sign after some counts indicates that the count is the minimun estimate of fish seen in less than ideal conditions. The * symbol indicates that this survey count was used as the peak survey for the site without duplication of counts for survey sites along the migratory corridors (see footnote b).

[b] The escapement estimate for each site is the asterisked aerial survey estimate. Where the survey site is a terminal spawning area the peak count is used, however, if the site is a schooling area for migratory fish bound for sites further upstream the count which minimizes possible duplicate counts across dates selected.

[c] The sum of the estimates by site within a system.

[d] These sites typically have very protracted run timing or two temporally segregated spawning populations at the same site. Aerial counts from more than one date may be asterisked and used in the escapement estimate if the surveyor indicated that these counts represented different fish.

Appendix C.2. Aerial escapement indices for coho salmon returning to the Copper River Delta and the Bering River by date and location, 1989.

| Area | Survey[a] System/Drainage | Site | Survey Date 8 Jun | 17 Jun | 27 Jun | 4 Jul | 11 Jul | 18 Jul | 27 Jul | 9 Aug | 14 Aug | 21 Aug |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Copper River Delta | Eyak River | Eyak River | NS | 0 | 0 | NC | NC | 0 | NS | NS | 0 | NS |
| | | West Shore Beaches | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Middle Arm Beaches | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | North Shore Beaches | 0 | 0 | NC | NC | 0 | 0 | 0 | 0 | 0 | NS |
| | | Hatchery Creek Delta | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Hatchery Creek | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Power Creek Delta | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | | Power Creek | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | Ibek Creek | | NS | NS | NS | NS | NS | NS | NS | NS | 0 | 50 |
| | Scott River | Scott River | NS | NS | NS | NS | NS | NS | NS | NS | 0 | 0 |
| | | Elsner Lake | NS | NS | NS | NS | NS | NS | NS | NS | 0 | 0 |
| | | Scott Lake | NS | NS | NS | NS | NS | NS | NS | NS | 0 | 0 |
| | Alganik Slough | Alganik Slough | NS | 0 | NS | NS | NS | NS | NS | NS | NS | 0 |
| | | 18/20 Mile Creeks | NS | NS | NS | NS | NS | NS | NS | 30 | 0 | 50 |
| | | McKinley Lake | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Salmon Creek – West Fork | NS | NS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Salmon Creek – East Fork | NS | NS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 26/27 Mile Creek | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 150 | 150 |
| | 39 Mile Ceek | | NS | NS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 300 |
| | Goat Mountain Creek | | NS | NS | 0 | 0 | 0 | NC | 0 | 0 | 0 | NS |
| | Pleasant Creek | | NS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Martin River | Martin River – Lower | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40 | 206 |
| | | Ragged Point River | NS | NS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120 |
| | | Ragged Point Lake Outlet | NS | NS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Ragged Point Lake | NS | NS | NS | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Martin River – Upper | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| | | Martin Lake Outlet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Martin Lake | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Martin Lake Feeders | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Pothole River | NS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Pothole Lake Outlet | NS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Pothole Lake | NS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Little Martin Lake Outlet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Little Martin Lake | NS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Tokun Springs | NS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Tokun River | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Tokun Lake Outlet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Tokun Lake | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Martin River Slough | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| Bering River Area | Bering River | Bering River | 0 | NC | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Bering Lake | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Dick Creek | NS | NS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Shepherd Creek – Lagoon | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NC | 0 | 0 |
| | | Shepherd Creek | NS | NS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Carbon Creek | NS | NS | 0 | 0 | 0 | 0 | 0 | NC | 0 | 0 |
| | | Maxwell Creek | NS | NS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Trout Creek | NS | NS | NS | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Clear Creek | NS | NS | NS | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Kushtaka Lake | NS | NS | NS | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Shokum Creek | NS | NS | NS | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Katalla River | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Nichawak/Gandil Rivers | Gandil River | NS | NS | NS | NS | NS | NS | NS | NS | 0 | 0 |
| | | Nichawak River | NS | NS | NS | NS | NS | NS | NS | NS | 0 | 110 |
| | Controller Bay Streams | Campbell River | NS | NS | NS | NS | NS | NS | NS | NS | 0 | 0 |
| | | Edwards River | NS | NS | NS | NS | NS | NS | NS | NS | 0 | 0 |
| | | Okalee River | NS | NS | NS | NS | NS | NS | NS | NS | 0 | 0 |
| | | Other Clear Streams | NS | NS | NS | NS | NS | NS | NS | NS | 0 | 0 |
| Copper River Delta Aerial Survey Daily Totals | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 190 | 901 |
| Bering River Area Total | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 110 |
| Total | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 190 | 1,011 |

| Area | Survey[a] System/Drainage | Site | Survey Date 3 Sep | 8 Sep | 16 Sep | 30 Sep | 9 Oct | 20 Oct | 30 Oct | Estimated Escapement Site[b] | System[c] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Copper River Delta | Eyak River | Eyak River | NS | NS | NS | NS | NS | NS | NS | 0 | 2,325 |
| | | West Shore Beaches | 30 + | 0 | 1,025 * | 400 | 0 | 10 | 40 | 1,025 | |
| | | Middle Arm Beaches | 0 | 0 | 900 * | NC | 0 | 0 | 0 | 900 | |
| | | North Shore Beaches | NC | NS | 0 * | NC | 0 | 0 | 0 | 0 | |
| | | Hatchery Creek Delta | NC | 0 | 200 | 0 * | 0 | 0 | 0 | 0 | |
| | | Hatchery Creek | 0 | 0 | 0 | 400 * | 50 | 85 | 50 | 400 | |
| | | Power Creek Delta | NS | NS | NC | NS | NS | NS | NS | NS | |
| | | Power Creek | NS | NS | NC | NS | NS | NS | NS | NS | |
| | Ibek Creek | | 100 + | 350 | 3,080 | 3,090 | 2,911 | 4,330 * | 2,980 | 4,330 | 4,330 |
| | Scott River | Scott River | NS | 0 | 0 | 0 | 0 | NS | 120 * | 120 | 510 |
| | | Elsner Lake | NS | 0 | 0 | 0 | 35 | 190 * | 180 | 190 | |
| | | Scott Lake | NS | 0 | 150 + | 200 * | 125 | NS | 0 | 200 | |
| | Alganik Slough | Alganik Slough | NC | 0 | NC | NS | 0 | NS | NS | 0 | 3,790 |
| | | 18/20 Mile Creeks | 50 + | 50 | 630 + | 1,000 * | 375 | 590 | 825 | 1,000 | |
| | | McKinley Lake | 0 | 0 | 200 | 800 * | 30 | 151 | 0 | 800 | |
| | | Salmon Creek – West Fork | 10 + | 0 | 0 | 940 | 60 | 170 | 1,460 * | 1,460 | |
| | | Salmon Creek – East Fork | NC | 0 | 160 | 0 | 530 * | 50 | 300 | 530 | |
| | 26/27 Mile Creek | | 100 | 60 | 190 | 810 * | 260 | NC | 535 | 810 | 810 |
| | 39 Mile Ceek | | 400 | 1,800 | 2,150 * | 860 | 360 | NS | 20 | 2,150 | 2,150 |
| | Goat Mountain Creek | | NS | 0 | 240 | 2,500 * | 900 | NS | 1,400 | 2,500 | 2,500 |
| | Pleasant Creek | | NC | 961 * | 0 | 0 | 25 | NS | 0 | 961 | 961 |
| | Martin River | Martin River – Lower | 220 | 260 | 2,900 | NC | NS | NS | 40 * | 40 | 40 |
| | | Ragged Point River | 10 | 0 | 80 | 450 | 575 | 1,155 | 2,500 * | 2,500 | 3,600 |
| | | Ragged Point Lake Outlet | 0 | 0 | 0 | 100 * | 0 | 0 | 0 | 100 | |
| | | Ragged Point Lake | 0 | 0 | 500 | 1,000 * | 0 | 200 + | 0 | 1,000 | |
| | | Martin River – Upper | 1,920 | 700 | 2,200 | NC | NS | NS | 430 * | 430 | 430 |
| | | Martin Lake Outlet | NC | 0 | 300 * | NC | NC | NC | 0 | 300 | 590 |
| | | Martin Lake | 50 + | 0 | 180 * | NC | NC | NC | 0 | 180 | |
| | | Martin Lake Feeders | NC | 0 | 110 * | NC | NC | NC | 60 | 110 | |
| | | Pothole River | NC | 0 | 1,300 * | 60 | 0 | 30 | 180 | 1,300 | 1,300 |
| | | Pothole Lake Outlet | NC | 0 | 0 * | 0 | 0 | 0 | 0 | 0 | |
| | | Pothole Lake | 0 | 200 | 0 * | 0 | 45 | 200 + | 0 | 0 | |
| | | Little Martin Lake Outlet | 1,260 | 500 | 1,400 | 7,000 * | 5,300 | 3,030 | 2,130 | 7,000 | 7,200 |
| | | Little Martin Lake | 140 + | 200 | 0 | 200 * | NC | 0 | 0 | 200 | |
| | | Tokun Springs | 100 + | 200 | 90 | 200 | 75 | 20 | 600 * | 600 | 2,870 |
| | | Tokun River | 120 | 40 | 90 | 700 | 1,700 | 930 | 2,150 * | 2,150 | |
| | | Tokun Lake Outlet | 100 | 0 | 0 | 0 | 0 * | 0 | 0 | 0 | |
| | | Tokun Lake | 0 | 0 | 0 | 0 | 120 * | 20 | 0 | 120 | |
| | Martin River Slough | | 1,460 + | 4,690 | 3,640 | 7,960 * | 1,805 | 6,364 | 3,030 | 7,960 | 7,960 |
| Bering River Area | Bering River | Bering River | NC | 0 | 360 | NC | NS | NS | NS | 0 | 1,570 |
| | | Bering Lake | 0 | 0 | 280 | 1,000 + | 550 | NC | 20 + | 1,000 | |
| | | Dick Creek | 110 + | 470 | 260 | 570 * | 70 | 525 | 750 | 570 | |
| | | Shepherd Creek – Lagoon | NC | 0 | NS | NS | NC | NS | NS | 0 | 70 |
| | | Shepherd Creek | NS | 70 * | NS | NS | NC | NS | NS | 70 | |
| | | Carbon Creek | NS | NS | NS | NS | 65 | NS | NS | 0 | |
| | | Maxwell Creek | NS | NS | NS | NS | 0 | NS | NS | 0 | |
| | | Trout Creek | 0 | 0 | NS | NS | 0 | NS | NS | 0 | 0 |
| | | Clear Creek | 0 | 0 | NS | NS | 0 | NS | NS | 0 | 0 |
| | | Kushtaka Lake | 0 | 0 | NS | NS | 15 * | NS | NS | 15 | 15 |
| | | Shokum Creek | 0 | 0 | NS | NS | 0 | NS | NS | 0 | 0 |
| | Katalla River | | NC | 700 | 1,220 * | 690 | 252 | 100 | 140 | 1,220 | 1,220 |
| | Nichawak/Gandil Rivers | Gandil River | NC | 1,320 | 520 | 1,410 * | 1,110 | 140 + | 220 | 1,410 | 3,960 |
| | | Nichawak River | NC | 500 | 1,200 | 460 | 125 | 10 | 2,550 * | 2,550 | |
| | Controller Bay Streams | Campbell River | NS | 0 | 300 * | 0 | 60 | 0 | 22 | 300 | 9,000 |
| | | Edwards River | NS | NS | 8,070 * | 7,250 | 5,620 | 5,500 | 5,570 | 8,070 | |
| | | Okalee River | NS | NS | 630 * | NC | 150 | 80 | 425 | 630 | |
| | | Other Clear Streams | NS | NS | 0 * | 0 | NS | NS | NS | 0 | |
| Copper River Delta Aerial Survey Daily Totals | | | 6,070 | 10,011 | 21,715 | 28,670 | 15,281 | 17,525 | 19,030 | | 41,366 |
| Bering River Area Total | | | 110 | 3,060 | 12,840 | 11,380 | 8,017 | 775 | 3,702 | | 15,835 |
| Total | | | 6,180 | 13,071 | 34,555 | 40,050 | 23,298 | 18,300 | 22,732 | | 57,201 |

[a] The survey sites represent most of the known coho salmon spawning locations in the Copper River Delta and Bering River drainages. Weather permitting, the sites are surveyed weekly. The surveys provide information about the relative strength of escapements among years and within a year, time trends for spawning sites, and the relative escapement strength among sites. The indices are not intended to provide an actual estimate of escapement for the coastal stocks, but they have been used for that purpose in the absence of any other escapement estimating method. The abbreviations used in the table are: NS = no survey, NC = surveyed but no count due to poor conditions, and SP = possible species confusion. The + signs indicate a minimun estimate of fish seen under less than ideal conditions. The * symbols indicate counts used as peak survey for the site without duplication of counts for survey sites along migratory corridors (see footnote b).

[b] The escapement estimate for each site is the asterisked aerial survey estimate. Where the survey site is a terminal spawning area the peak count is used, however, if the site is a schooling area for migratory fish bound for sites further upstream the count which minimizes possible duplicate counts across dates selected.

[c] The sum of the estimates by site within a system.

Appendix C.3. Estimated age and sex composition in the combined escapements of sockeye salmon to the Copper River Delta and Bering River drainages, 1989.

| | | Brood Year and Age Group | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1987 | 1986 | | 1985 | | | 1984 | | | 1983 | | 1982 | |
| | | 0.1 | 0.2 | 1.1 | 0.3 | 1.2 | 2.1 | 1.3 | 2.2 | 3.1 | 2.3 | 3.2 | 3.3 | Total |
| **COPPER RIVER DELTA SYSTEM TOTAL** | | | | | | | | | | | | | | |
| Stratum Dates: | 6/8–9/30 | | | | | | | | | | | | | |
| Sampling Dates: | 7/1–8/14 | | | | | | | | | | | | | |
| Sample Size: | 6,035 | | | | | | | | | | | | | |
| Female | Percent of Sample | 0.0 | 0.7 | 0.0 | 2.6 | 6.7 | 0.0 | 23.2 | 1.4 | 0.0 | 5.5 | 0.0 | 0.0 | 40.1 |
| | Number in Catch | 0 | 316 | 14 | 1,182 | 3,046 | 0 | 10,552 | 636 | 0 | 2,527 | 6 | 0 | 18,278 |
| Male | Percent of Sample | 0.1 | 7.0 | 2.6 | 1.4 | 28.0 | 1.2 | 13.8 | 2.9 | 0.0 | 2.9 | 0.0 | 0.0 | 59.9 |
| | Number in Catch | 26 | 3,206 | 1,207 | 629 | 12,764 | 524 | 6,270 | 1,319 | 6 | 1,312 | 10 | 0 | 27,272 |
| Total | Percent of Sample | 0.1 | 7.7 | 2.7 | 4.0 | 34.7 | 1.2 | 36.9 | 4.3 | 0.0 | 8.4 | 0.0 | 0.0 | 100.0 |
| | Number in Catch | 26 | 3,522 | 1,221 | 1,810 | 15,810 | 524 | 16,822 | 1,955 | 6 | 3,838 | 16 | 0 | 45,550 |
| | Standard Error | 15 | 155 | 103 | 118 | 303 | 62 | 309 | 136 | 6 | 189 | 9 | 0 | |
| **BERING RIVER DRAINAGE TOTAL** | | | | | | | | | | | | | | |
| Stratum Dates: | 6/17–9/8 | | | | | | | | | | | | | |
| Sampling Dates: | 7/11,8/4 | | | | | | | | | | | | | |
| Sample Size: | 1,347 | | | | | | | | | | | | | |
| Female | Percent of Sample | 0.0 | 0.0 | 0.0 | 0.5 | 1.6 | 0.0 | 41.4 | 0.4 | 0.0 | 7.5 | 0.0 | 0.0 | 51.3 |
| | Number in Catch | 0 | 2 | 0 | 73 | 247 | 0 | 6,565 | 59 | 0 | 1,194 | 0 | 0 | 8,139 |
| Male | Percent of Sample | 0.0 | 1.8 | 1.2 | 0.3 | 10.0 | 0.0 | 29.7 | 0.8 | 0.0 | 4.6 | 0.0 | 0.2 | 48.7 |
| | Number in Catch | 0 | 291 | 194 | 49 | 1,593 | 2 | 4,714 | 125 | 0 | 728 | 0 | 24 | 7,721 |
| Total | Percent of Sample | 0.0 | 1.9 | 1.2 | 0.8 | 11.6 | 0.0 | 71.1 | 1.2 | 0.0 | 12.1 | 0.0 | 0.2 | 100.0 |
| | Number in Catch | 0 | 293 | 194 | 121 | 1,840 | 2 | 11,279 | 184 | 0 | 1,922 | 0 | 24 | 15,860 |
| | Standard Error | 0 | 83 | 68 | 54 | 193 | 2 | 260 | 55 | 0 | 167 | 0 | 24 | |
| **COMBINED COPPER DELTA/BERING RIVER ESCAPEMENTS** | | | | | | | | | | | | | | |
| Stratum Dates: | 6/8–9/30 | | | | | | | | | | | | | |
| Sampling Dates: | 7/1–8/14 | | | | | | | | | | | | | |
| Sample Size: | 7,382 | | | | | | | | | | | | | |
| Female | Percent of Sample | 0.0 | 0.5 | 0.0 | 2.0 | 5.4 | 0.0 | 27.9 | 1.1 | 0.0 | 6.1 | 0.0 | 0.0 | 43.0 |
| | Number in Catch | 0 | 318 | 14 | 1,255 | 3,293 | 0 | 17,117 | 695 | 0 | 3,720 | 6 | 0 | 26,417 |
| Male | Percent of Sample | 0.0 | 5.7 | 2.3 | 1.1 | 23.4 | 0.9 | 17.9 | 2.4 | 0.0 | 3.3 | 0.0 | 0.0 | 57.0 |
| | Number in Catch | 26 | 3,498 | 1,401 | 677 | 14,357 | 526 | 10,984 | 1,444 | 6 | 2,040 | 10 | 24 | 34,993 |
| Total | Percent of Sample | 0.0 | 6.2 | 2.3 | 3.1 | 28.7 | 0.9 | 45.8 | 3.5 | 0.0 | 9.4 | 0.0 | 0.0 | 100.0 |
| | Number in Catch | 26 | 3,816 | 1,415 | 1,932 | 17,650 | 526 | 28,101 | 2,139 | 6 | 5,760 | 16 | 24 | 61,410 |
| | Standard Error | 15 | 176 | 123 | 129 | 359 | 63 | 404 | 147 | 6 | 252 | 9 | 24 | |

Appendix C.4. Estimated age and sex composition of the sockeye salmon escapements to the Copper River Delta, 1989. Based on samples from beach seine catches and aerial estimates of escapement to both stream and beach spawning sites.

| | | Brood Year and Age Group | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1987 | 1986 | | 1985 | | | 1984 | | | 1983 | | |
| | | 0.1 | 0.2 | 1.1 | 0.3 | 1.2 | 2.1 | 1.3 | 2.2 | 3.1 | 2.3 | 3.2 | Total |
| EYAK LAKE – South Beaches | | | | | | | | | | | | | |
| Stratum Dates: | 6/17–9/16 | | | | | | | | | | | | |
| Sampling Dates: | 7/12, 8/14 | | | | | | | | | | | | |
| Sample Size: | 421 | | | | | | | | | | | | |
| Female | Percent of Sample | 0.0 | 0.3 | 0.0 | 7.6 | 2.6 | 0.0 | 29.3 | 0.0 | 0.0 | 3.3 | 0.0 | 43.0 |
| | Number in Escapement | 0 | 5 | 0 | 108 | 37 | 0 | 418 | 0 | 0 | 47 | 0 | 615 |
| Male | Percent of Sample | 0.5 | 5.0 | 1.3 | 8.2 | 20.8 | 0.2 | 18.3 | 1.4 | 0.0 | 1.3 | 0.0 | 57.0 |
| | Number in Escapement | 7 | 71 | 19 | 117 | 297 | 2 | 262 | 20 | 0 | 19 | 0 | 815 |
| Total | Percent of Sample | 0.5 | 5.3 | 1.3 | 15.8 | 23.4 | 0.2 | 47.6 | 1.4 | 0.0 | 4.6 | 0.0 | 100.0 |
| | Number in Escapement | 7 | 76 | 19 | 225 | 334 | 2 | 681 | 20 | 0 | 66 | 0 | 1,430 |
| | Standard Error | 5 | 18 | 5 | 29 | 33 | 2 | 39 | 7 | 0 | 14 | 0 | |
| EYAK LAKE – Middle Arm Beaches | | | | | | | | | | | | | |
| Stratum Dates: | 6/8–9/16 | | | | | | | | | | | | |
| Sampling Dates: | 8/10 | | | | | | | | | | | | |
| Sample Size: | 549 | | | | | | | | | | | | |
| Female | Percent of Sample | 0.0 | 0.2 | 0.0 | 0.9 | 6.9 | 0.0 | 32.2 | 1.1 | 0.0 | 8.4 | 0.0 | 49.7 |
| | Number in Escapement | 0 | 5 | 0 | 23 | 173 | 0 | 806 | 27 | 0 | 209 | 0 | 1,243 |
| Male | Percent of Sample | 0.0 | 0.7 | 0.9 | 1.8 | 12.6 | 0.5 | 27.1 | 0.7 | 0.0 | 5.8 | 0.0 | 50.3 |
| | Number in Escapement | 0 | 18 | 23 | 46 | 314 | 14 | 679 | 18 | 0 | 146 | 0 | 1,257 |
| Total | Percent of Sample | 0.0 | 0.9 | 0.9 | 2.7 | 19.5 | 0.5 | 59.4 | 1.8 | 0.0 | 14.2 | 0.0 | 100.0 |
| | Number in Escapement | 0 | 23 | 23 | 68 | 487 | 14 | 1,485 | 46 | 0 | 355 | 0 | 2,500 |
| | Standard Error | 0 | 10 | 10 | 17 | 42 | 8 | 52 | 14 | 0 | 37 | 0 | |
| MCKINLEY LAKE | | | | | | | | | | | | | |
| Stratum Dates: | 7/4–9/30 | | | | | | | | | | | | |
| Sampling Dates: | 7/24 | | | | | | | | | | | | |
| Sample Size: | 613 | | | | | | | | | | | | |
| Female | Percent of Sample | 0.0 | 0.3 | 0.0 | 1.0 | 8.0 | 0.0 | 26.8 | 0.2 | 0.0 | 4.2 | 0.0 | 40.5 |
| | Number in Escapement | 0 | 23 | 0 | 68 | 554 | 0 | 1,854 | 11 | 0 | 294 | 0 | 2,804 |
| Male | Percent of Sample | 0.2 | 4.9 | 2.3 | 0.5 | 33.8 | 0.2 | 13.1 | 2.8 | 0.0 | 2.0 | 0.0 | 59.5 |
| | Number in Escapement | 11 | 339 | 158 | 34 | 2,340 | 11 | 904 | 192 | 0 | 136 | 0 | 4,126 |
| Total | Percent of Sample | 0.2 | 5.2 | 2.3 | 1.5 | 41.8 | 0.2 | 39.8 | 2.9 | 0.0 | 6.2 | 0.0 | 100.0 |
| | Number in Escapement | 11 | 362 | 158 | 102 | 2,894 | 11 | 2,758 | 203 | 0 | 430 | 0 | 6,930 |
| | Standard Error | 11 | 62 | 42 | 34 | 138 | 11 | 137 | 47 | 0 | 68 | 0 | |
| 27 MILE CREEK | | | | | | | | | | | | | |
| Stratum Dates: | 6/27–9/30 | | | | | | | | | | | | |
| Sampling Dates: | 6/30 | | | | | | | | | | | | |
| Sample Size: | 523 | | | | | | | | | | | | |
| Female | Percent of Sample | 0.0 | 0.8 | 0.0 | 8.0 | 2.1 | 0.0 | 23.5 | 0.6 | 0.0 | 1.3 | 0.0 | 36.3 |
| | Number in Escapement | 0 | 23 | 0 | 243 | 64 | 0 | 710 | 17 | 0 | 40 | 0 | 1,097 |
| Male | Percent of Sample | 0.0 | 18.0 | 1.7 | 1.9 | 35.8 | 0.2 | 3.6 | 1.7 | 0.0 | 0.8 | 0.0 | 63.7 |
| | Number in Escapement | 0 | 543 | 52 | 58 | 1,080 | 6 | 110 | 52 | 0 | 23 | 0 | 1,923 |
| Total | Percent of Sample | 0.0 | 18.7 | 1.7 | 9.9 | 37.9 | 0.2 | 27.2 | 2.3 | 0.0 | 2.1 | 0.0 | 100.0 |
| | Number in Escapement | 0 | 566 | 52 | 300 | 1,143 | 6 | 820 | 69 | 0 | 64 | 0 | 3,020 |
| | Standard Error | 0 | 52 | 17 | 40 | 64 | 6 | 59 | 20 | 0 | 19 | 0 | |

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| | | Brood Year and Age Group | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1987 | 1986 | | 1985 | | | 1984 | | | 1983 | | |
| | | 0.1 | 0.2 | 1.1 | 0.3 | 1.2 | 2.1 | 1.3 | 2.2 | 3.1 | 2.3 | 3.2 | Total |
| 39 MILE CREEK | | | | | | | | | | | | | |
| Stratum Dates: | 6/27–9/8 | | | | | | | | | | | | |
| Sampling Dates: | 7/14 | | | | | | | | | | | | |
| Sample Size: | 540 | | | | | | | | | | | | |
| Female | Percent of Sample | 0.0 | 0.2 | 0.0 | 2.0 | 3.9 | 0.0 | 32.0 | 1.5 | 0.0 | 8.0 | 0.0 | 47.6 |
| | Number in Escapement | 0 | 14 | 0 | 151 | 289 | 0 | 2,377 | 110 | 0 | 591 | 0 | 3,531 |
| Male | Percent of Sample | 0.0 | 1.5 | 0.9 | 1.7 | 15.7 | 0.7 | 22.0 | 3.9 | 0.0 | 5.9 | 0.0 | 52.4 |
| | Number in Escapement | 0 | 110 | 69 | 124 | 1,168 | 55 | 1,635 | 289 | 0 | 440 | 0 | 3,889 |
| Total | Percent of Sample | 0.0 | 1.7 | 0.9 | 3.7 | 19.6 | 0.7 | 54.1 | 5.4 | 0.0 | 13.9 | 0.0 | 100.0 |
| | Number in Escapement | 0 | 124 | 69 | 275 | 1,457 | 55 | 4,012 | 398 | 0 | 1,031 | 0 | 7,420 |
| | Standard Error | 0 | 41 | 31 | 60 | 127 | 27 | 159 | 72 | 0 | 111 | 0 | |
| PLEASANT CREEK | | | | | | | | | | | | | |
| Stratum Dates: | 6/17–8/9 | | | | | | | | | | | | |
| Sampling Dates: | 7/1 | | | | | | | | | | | | |
| Sample Size: | 417 | | | | | | | | | | | | |
| Female | Percent of Sample | 0.0 | 0.5 | 0.0 | 9.1 | 5.8 | 0.0 | 34.3 | 0.5 | 0.0 | 0.2 | 0.0 | 50.4 |
| | Number in Escapement | 0 | 5 | 0 | 90 | 57 | 0 | 339 | 5 | 0 | 2 | 0 | 499 |
| Male | Percent of Sample | 0.0 | 2.2 | 0.2 | 5.0 | 13.7 | 0.2 | 26.9 | 1.0 | 0.0 | 0.5 | 0.0 | 49.6 |
| | Number in Escapement | 0 | 21 | 2 | 50 | 135 | 2 | 266 | 9 | 0 | 5 | 0 | 491 |
| Total | Percent of Sample | 0.0 | 2.6 | 0.2 | 14.1 | 19.4 | 0.2 | 61.2 | 1.4 | 0.0 | 0.7 | 0.0 | 100.0 |
| | Number in Escapement | 0 | 26 | 2 | 140 | 192 | 2 | 605 | 14 | 0 | 7 | 0 | 990 |
| | Standard Error | 0 | 8 | 2 | 17 | 19 | 2 | 24 | 6 | 0 | 4 | 0 | |
| RAGGED POINT RIVER | | | | | | | | | | | | | |
| Stratum Dates: | 7/18–10/9 | | | | | | | | | | | | |
| Sampling Dates: | 7/7 | | | | | | | | | | | | |
| Sample Size: | 576 | | | | | | | | | | | | |
| Female | Percent of Sample | 0.0 | 3.6 | 0.0 | 5.4 | 8.0 | 0.0 | 19.4 | 0.5 | 0.0 | 4.0 | 0.0 | 41.0 |
| | Number in Escapement | 0 | 161 | 0 | 238 | 353 | 0 | 859 | 23 | 0 | 176 | 0 | 1,811 |
| Male | Percent of Sample | 0.2 | 18.2 | 2.6 | 1.7 | 19.8 | 0.2 | 11.5 | 1.0 | 0.0 | 3.8 | 0.0 | 59.0 |
| | Number in Escapement | 8 | 806 | 115 | 77 | 875 | 8 | 506 | 46 | 0 | 169 | 0 | 2,609 |
| Total | Percent of Sample | 0.2 | 21.9 | 2.6 | 7.1 | 27.8 | 0.2 | 30.9 | 1.6 | 0.0 | 7.8 | 0.0 | 100.0 |
| | Number in Escapement | 8 | 967 | 115 | 315 | 1,228 | 8 | 1,366 | 69 | 0 | 345 | 0 | 4,420 |
| | Standard Error | 8 | 76 | 29 | 47 | 83 | 8 | 85 | 23 | 0 | 49 | 0 | |
| MARTIN LAKE | | | | | | | | | | | | | |
| Stratum Dates: | 7/17–10/30 | | | | | | | | | | | | |
| Sampling Dates: | 7/20 | | | | | | | | | | | | |
| Sample Size: | 566 | | | | | | | | | | | | |
| Female | Percent of Sample | 0.0 | 0.7 | 0.2 | 2.1 | 9.2 | 0.0 | 24.6 | 3.2 | 0.0 | 9.7 | 0.0 | 49.6 |
| | Number in Escapement | 0 | 55 | 14 | 166 | 721 | 0 | 1,928 | 250 | 0 | 763 | 0 | 3,897 |
| Male | Percent of Sample | 0.0 | 5.8 | 4.1 | 0.7 | 28.4 | 1.1 | 4.2 | 3.9 | 0.0 | 2.1 | 0.0 | 50.4 |
| | Number in Escapement | 0 | 458 | 319 | 55 | 2,233 | 83 | 333 | 305 | 0 | 166 | 0 | 3,953 |
| Total | Percent of Sample | 0.0 | 6.5 | 4.2 | 2.8 | 37.6 | 1.1 | 28.8 | 7.1 | 0.0 | 11.8 | 0.0 | 100.0 |
| | Number in Escapement | 0 | 513 | 333 | 222 | 2,954 | 83 | 2,261 | 555 | 0 | 929 | 0 | 7,850 |
| | Standard Error | 0 | 82 | 67 | 55 | 160 | 34 | 150 | 85 | 0 | 107 | 0 | |

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| | | Brood Year and Age Group | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1987 | 1986 | | 1985 | | | 1984 | | | 1983 | | |
| | | 0.1 | 0.2 | 1.1 | 0.3 | 1.2 | 2.1 | 1.3 | 2.2 | 3.1 | 2.3 | 3.2 | Total |
| LITTLE MARTIN LAKE | | | | | | | | | | | | | |
| Stratum Dates: | 6/27–9/16 | | | | | | | | | | | | |
| Sampling Dates: | 7/27 | | | | | | | | | | | | |
| Sample Size: | 537 | | | | | | | | | | | | |
| Female | Percent of Sample | 0.0 | 0.0 | 0.0 | 0.0 | 9.9 | 0.0 | 7.8 | 5.4 | 0.0 | 10.2 | 0.2 | 33.5 |
| | Number in Escapement | 0 | 0 | 0 | 0 | 299 | 0 | 237 | 164 | 0 | 310 | 6 | 1,016 |
| Male | Percent of Sample | 0.0 | 0.2 | 14.7 | 0.0 | 21.2 | 11.2 | 6.5 | 7.1 | 0.2 | 5.2 | 0.2 | 66.5 |
| | Number in Escapement | 0 | 6 | 446 | 0 | 643 | 339 | 197 | 214 | 6 | 158 | 6 | 2,014 |
| Total | Percent of Sample | 0.0 | 0.2 | 14.7 | 0.0 | 31.1 | 11.2 | 14.3 | 12.5 | 0.2 | 15.5 | 0.4 | 100.0 |
| | Number in Escapement | 0 | 6 | 446 | 0 | 942 | 339 | 434 | 378 | 6 | 468 | 11 | 3,030 |
| | Standard Error | 0 | 6 | 46 | 0 | 61 | 41 | 46 | 43 | 6 | 47 | 8 | |
| TOKUN LAKE | | | | | | | | | | | | | |
| Stratum Dates: | 6/27–9/30 | | | | | | | | | | | | |
| Sampling Dates: | 8/8 | | | | | | | | | | | | |
| Sample Size: | 597 | | | | | | | | | | | | |
| Female | Percent of Sample | 0.0 | 0.0 | 0.0 | 0.2 | 9.0 | 0.0 | 15.6 | 0.3 | 0.0 | 0.8 | 0.0 | 26.0 |
| | Number in Escapement | 0 | 0 | 0 | 8 | 448 | 0 | 771 | 17 | 0 | 41 | 0 | 1,285 |
| Male | Percent of Sample | 0.0 | 0.0 | 0.0 | 0.3 | 47.4 | 0.0 | 25.3 | 0.3 | 0.0 | 0.7 | 0.0 | 74.0 |
| | Number in Escapement | 0 | 0 | 0 | 17 | 2,346 | 0 | 1,252 | 17 | 0 | 33 | 0 | 3,665 |
| Total | Percent of Sample | 0.0 | 0.0 | 0.0 | 0.5 | 56.4 | 0.0 | 40.9 | 0.7 | 0.0 | 1.5 | 0.0 | 100.0 |
| | Number in Escapement | 0 | 0 | 0 | 25 | 2,794 | 0 | 2,023 | 33 | 0 | 75 | 0 | 4,950 |
| | Standard Error | 0 | 0 | 0 | 14 | 101 | 0 | 100 | 17 | 0 | 25 | 0 | |
| MARTIN RIVER SLOUGH | | | | | | | | | | | | | |
| Stratum Dates: | 6/27–9/3 | | | | | | | | | | | | |
| Sampling Dates: | 7/6 | | | | | | | | | | | | |
| Sample Size: | 696 | | | | | | | | | | | | |
| Female | Percent of Sample | 0.0 | 0.9 | 0.0 | 2.9 | 1.7 | 0.0 | 8.3 | 0.4 | 0.0 | 1.7 | 0.0 | 15.9 |
| | Number in Escapement | 0 | 26 | 0 | 86 | 52 | 0 | 251 | 13 | 0 | 52 | 0 | 480 |
| Male | Percent of Sample | 0.0 | 27.7 | 0.1 | 1.7 | 44.3 | 0.1 | 4.2 | 5.2 | 0.0 | 0.6 | 0.1 | 84.1 |
| | Number in Escapement | 0 | 835 | 4 | 52 | 1,332 | 4 | 125 | 156 | 0 | 17 | 4 | 2,530 |
| Total | Percent of Sample | 0.0 | 28.6 | 0.1 | 4.6 | 46.0 | 0.1 | 12.5 | 5.6 | 0.0 | 2.3 | 0.1 | 100.0 |
| | Number in Escapement | 0 | 861 | 4 | 138 | 1,384 | 4 | 376 | 169 | 0 | 69 | 4 | 3,010 |
| | Standard Error | 0 | 52 | 4 | 24 | 57 | 4 | 38 | 26 | 0 | 17 | 4 | |
| COPPER RIVER DELTA SYSTEM TOTAL | | | | | | | | | | | | | |
| Stratum Dates: | 6/8–9/30 | | | | | | | | | | | | |
| Sampling Dates: | 7/1–8/14 | | | | | | | | | | | | |
| Sample Size: | 6,035 | | | | | | | | | | | | |
| Female | Percent of Sample | 0.0 | 0.7 | 0.0 | 2.6 | 6.7 | 0.0 | 23.2 | 1.4 | 0.0 | 5.5 | 0.0 | 40.1 |
| | Number in Escapement | 0 | 316 | 14 | 1,182 | 3,046 | 0 | 10,552 | 636 | 0 | 2,527 | 6 | 18,278 |
| Male | Percent of Sample | 0.1 | 7.0 | 2.6 | 1.4 | 28.0 | 1.2 | 13.8 | 2.9 | 0.0 | 2.9 | 0.0 | 59.9 |
| | Number in Escapement | 26 | 3,206 | 1,207 | 629 | 12,764 | 524 | 6,270 | 1,319 | 6 | 1,312 | 10 | 27,272 |
| Total | Percent of Sample | 0.1 | 7.7 | 2.7 | 4.0 | 34.7 | 1.2 | 36.9 | 4.3 | 0.0 | 8.4 | 0.0 | 100.0 |
| | Number in Escapement | 26 | 3,522 | 1,221 | 1,810 | 15,810 | 524 | 16,822 | 1,955 | 6 | 3,838 | 16 | 45,550 |
| | Standard Error | 15 | 155 | 103 | 118 | 303 | 62 | 309 | 136 | 6 | 189 | 9 | |

Appendix C.5. Estimated age and sex composition of the sockeye salmon escapements to the Bering River drainage, 1989. Based beach seine catches and aerial estimates of escapements to both stream and beach spawning sites.

| | | Brood Year and Age Group | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1986 | | 1985 | | | 1984 | | 1983 | 1982 | |
| | | 0.2 | 1.1 | 0.3 | 1.2 | 2.1 | 1.3 | 2.2 | 2.3 | 3.3 | Total |
| BERING LAKE – Vicinity of Dick Creek | | | | | | | | | | | |
| Stratum Dates: | 6/17–9/8 | | | | | | | | | | |
| Sampling Dates: | 7/11 | | | | | | | | | | |
| Sample Size: | 590 | | | | | | | | | | |
| Female | Percent of Sample | 0.0 | 0.0 | 0.5 | 1.4 | 0.0 | 43.4 | 0.2 | 5.3 | 0.0 | 50.7 |
| | Number in Escapement | 0 | 0 | 73 | 194 | 0 | 6,218 | 24 | 753 | 0 | 7,262 |
| Male | Percent of Sample | 2.0 | 1.4 | 0.3 | 10.7 | 0.0 | 30.8 | 0.7 | 3.2 | 0.2 | 49.3 |
| | Number in Escapement | 291 | 194 | 49 | 1,530 | 0 | 4,420 | 97 | 461 | 24 | 7,068 |
| Total | Percent of Sample | 2.0 | 1.4 | 0.8 | 12.0 | 0.0 | 74.2 | 0.8 | 8.5 | 0.2 | 100.0 |
| | Number in Escapement | 291 | 194 | 121 | 1,724 | 0 | 10,638 | 121 | 1,214 | 24 | 14,330 |
| | Standard Error | 83 | 68 | 54 | 192 | 0 | 258 | 54 | 164 | 24 | |
| KUSHTAKA LAKE – Mouth of Shokum Creek | | | | | | | | | | | |
| Stratum Dates: | 7/27–9/8 | | | | | | | | | | |
| Sampling Dates: | 8/4 | | | | | | | | | | |
| Sample Size: | 757 | | | | | | | | | | |
| Female | Percent of Sample | 0.1 | 0.0 | 0.0 | 3.4 | 0.0 | 22.7 | 2.2 | 28.8 | 0.0 | 57.3 |
| | Number in Escapement | 2 | 0 | 0 | 53 | 0 | 348 | 34 | 441 | 0 | 877 |
| Male | Percent of Sample | 0.0 | 0.0 | 0.0 | 4.1 | 0.1 | 19.2 | 1.8 | 17.4 | 0.0 | 42.7 |
| | Number in Escapement | 0 | 0 | 0 | 63 | 2 | 293 | 28 | 267 | 0 | 653 |
| Total | Percent of Sample | 0.1 | 0.0 | 0.0 | 7.5 | 0.1 | 41.9 | 4.1 | 46.2 | 0.0 | 100.0 |
| | Number in Escapement | 2 | 0 | 0 | 115 | 2 | 641 | 63 | 707 | 0 | 1,530 |
| | Standard Error | 2 | 0 | 0 | 15 | 2 | 27 | 11 | 28 | 0 | |
| BERING RIVER DRAINAGE TOTAL | | | | | | | | | | | |
| Stratum Dates: | 6/17–9/8 | | | | | | | | | | |
| Sampling Dates: | 7/11,8/4 | | | | | | | | | | |
| Sample Size: | 1,347 | | | | | | | | | | |
| Female | Percent of Sample | 0.0 | 0.0 | 0.5 | 1.6 | 0.0 | 41.4 | 0.4 | 7.5 | 0.0 | 51.3 |
| | Number in Escapement | 2 | 0 | 73 | 247 | 0 | 6,565 | 59 | 1,194 | 0 | 8,139 |
| Male | Percent of Sample | 1.8 | 1.2 | 0.3 | 10.0 | 0.0 | 29.7 | 0.8 | 4.6 | 0.2 | 48.7 |
| | Number in Escapement | 291 | 194 | 49 | 1,593 | 2 | 4,714 | 125 | 728 | 24 | 7,721 |
| Total | Percent of Sample | 1.9 | 1.2 | 0.8 | 11.6 | 0.0 | 71.1 | 1.2 | 12.1 | 0.2 | 100.0 |
| | Number in Escapement | 293 | 194 | 121 | 1,840 | 2 | 11,279 | 184 | 1,922 | 24 | 15,860 |
| | Standard Error | 83 | 68 | 54 | 193 | 2 | 260 | 55 | 167 | 24 | |

## APPENDIX D

Salmon Escapements to the Upper Copper River.

Appendix D.1 Daily Copper River salmon escapement estimates at the Miles Lake sonar site, 1989.

| Date | North Bank | South Bank | Total Daily | Cumulative Total |
|---|---|---|---|---|
| 17-May | | 732 [a] | 732 | 732 |
| 18-May | | 3,660 [b] | 3,660 | 4,392 |
| 19-May | | 6,588 [c] | 6,588 | 10,980 |
| 20-May | 880 [d] | 6,055 [e] | 6,935 | 17,915 |
| 21-May | 500 | 4,334 | 4,834 | 22,749 |
| 22-May | 1,004 | 3,026 | 4,030 | 26,779 |
| 23-May | 793 | 5,679 | 6,472 | 33,251 |
| 24-May | 983 | 6,465 | 7,448 | 40,699 |
| 25-May | 783 | 3,875 | 4,658 | 45,357 |
| 26-May | 1,363 | 6,955 | 8,318 | 53,675 |
| 27-May | 2,770 | 10,373 | 13,143 | 66,818 |
| 28-May | 1,529 | 12,351 | 13,880 | 80,698 |
| 29-May | 879 | 9,798 | 10,677 | 91,375 |
| 30-May | 547 | 4,828 | 5,375 | 96,750 |
| 31-May | 383 | 6,933 [f] | 7,316 | 104,066 |
| 01-Jun | 361 | 6,680 | 7,041 | 111,107 |
| 02-Jun | 376 | 4,858 | 5,234 | 116,341 |
| 03-Jun | 350 | 6,517 | 6,867 | 123,208 |
| 04-Jun | 564 | 7,991 | 8,555 | 131,763 |
| 05-Jun | 392 | 7,120 | 7,512 | 139,275 |
| 06-Jun | 445 | 7,274 | 7,719 | 146,994 |
| 07-Jun | 533 | 12,160 | 12,693 | 159,687 |
| 08-Jun | 540 | 14,025 | 14,565 | 174,252 |
| 09-Jun | 846 | 8,594 | 9,440 | 183,692 |
| 10-Jun | 1,058 | 11,068 | 12,126 | 195,818 |
| 11-Jun | 1,065 | 8,598 | 9,663 | 205,481 |
| 12-Jun | 804 | 7,452 | 8,256 | 213,737 |
| 13-Jun | 726 | 9,900 | 10,626 | 224,363 |
| 14-Jun | 631 | 12,917 | 13,548 | 237,911 |
| 15-Jun | 519 | 9,403 | 9,922 | 247,833 |
| 16-Jun | 445 | 8,444 | 8,889 | 256,722 |
| 17-Jun | 151 | 9,869 | 10,020 | 266,742 |
| 18-Jun | 511 | 10,620 | 11,131 | 277,873 |
| 19-Jun | 264 | 8,081 | 8,345 | 286,218 |
| 20-Jun | 171 | 7,404 | 7,575 | 293,793 |
| 21-Jun | 544 | 6,625 | 7,169 | 300,962 |
| 22-Jun | 296 | 8,572 | 8,868 | 309,830 |
| 23-Jun | 258 | 5,592 | 5,850 | 315,680 |
| 24-Jun | 104 | 3,823 | 3,927 | 319,607 |
| 25-Jun | 197 | 2,799 | 2,996 | 322,603 |
| 26-Jun | 139 | 3,287 | 3,426 | 326,029 |
| 27-Jun | 157 | 3,083 | 3,240 | 329,269 |
| 28-Jun | 133 | 6,169 | 6,302 | 335,571 |
| 29-Jun | 518 | 5,972 | 6,490 | 342,061 |
| 30-Jun | 492 | 6,862 | 7,354 | 349,415 |

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Appendix D.1. (Pg 2 of 2).

| Date | North Bank | South Bank | Total Daily | Cumulative Total |
|---|---|---|---|---|
| 01-Jul | 250 | 7,680 | 7,930 | 357,345 |
| 02-Jul | 158 | 5,138 | 5,296 | 362,641 |
| 03-Jul | 149 | 4,827 | 4,976 | 367,617 |
| 04-Jul | 207 | 7,162 | 7,369 | 374,986 |
| 05-Jul | 370 | 10,369 | 10,739 | 385,725 |
| 06-Jul | 355 | 9,669 | 10,024 | 395,749 |
| 07-Jul | 304 | 9,932 | 10,236 | 405,985 |
| 08-Jul | 385 | 10,728 | 11,113 | 417,098 |
| 09-Jul | 508 | 10,253 | 10,761 | 427,859 |
| 10-Jul | 465 | 9,041 | 9,506 | 437,365 |
| 11-Jul | 290 | 8,163 | 8,453 | 445,818 |
| 12-Jul | 367 | 11,586 | 11,953 | 457,771 |
| 13-Jul | 245 | 9,084 | 9,329 | 467,100 |
| 14-Jul | 395 | 9,875 | 10,270 | 477,370 |
| 15-Jul | 125 | 12,158 | 12,283 | 489,653 |
| 16-Jul | 220 | 10,677 | 10,897 | 500,550 |
| 17-Jul | 224 | 8,679 | 8,903 | 509,453 |
| 18-Jul | 401 | 11,410 | 11,811 | 521,264 |
| 19-Jul | 725 | 9,842 | 10,567 | 531,831 |
| 20-Jul | 501 | 9,668 | 10,169 | 542,000 |
| 21-Jul | 596 | 8,043 | 8,639 | 550,639 |
| 22-Jul | | 8,908 | 8,908 | 559,547 |
| 23-Jul | | 8,103 | 8,103 | 567,650 |
| 24-Jul | | 6,250 | 6,250 | 573,900 |
| 25-Jul | | 5,303 | 5,303 | 579,203 |
| 26-Jul | | 5,706 | 5,706 | 584,909 |
| 27-Jul | | 5,699 | 5,699 | 590,608 |
| 28-Jul | | 4,926 | 4,926 | 595,534 |
| 29-Jul | | 4,150 | 4,150 | 599,684 |
| 30-Jul | | 2,519 | 2,519 | 602,203 |
| 31-Jul | | 1,551 | 1,551 | 603,754 |
| 01-Aug | | 2,299 | 2,299 | 606,053 |
| 02-Aug | | 1,744 | 1,744 | 607,797 |
| 03-Aug | | | | |
| Total | 33,244 | 574,553 | 607,797 | |

[a] 4 hours operational, expanded to daily estimate.
[b] Average of previous and following daily estimates.
[c] 12 hours operational using artifical substrate, expanded to daily estimate.
[d] 14 hours operational, expanded to daily estimate.
[e] South bank substrate knocked out by ice at 11:05,
17 hours operational using artifical substrate, expanded to daily estimate.
[f] Operational using permanent substrate at 03:00.

Appendix D.2. Sockeye salmon escapement through the Long Lake weir, 1989. Data collected by Cliff Collins and family of Long Lake, Alaska.

| Date | Daily | Cumulative |
|---|---|---|
| 08/08 | 13 | 13 |
| 08/09 | 216 | 229 |
| 08/10 | 203 | 432 |
| 08/11 | 142 | 574 |
| 08/12 | 103 | 677 |
| 08/13 | 0 | 677 |
| 08/14 | 13 | 690 |
| 08/15 | 138 | 828 |
| 08/16 | 344 | 1,172 |
| 08/17 | 822 | 1,994 |
| 08/18 | 137 | 2,131 |
| 08/19 | 386 | 2,517 |
| 08/20 | 640 | 3,157 |
| 08/21 | 32 | 3,189 |
| 08/22 | 48 | 3,237 |
| 08/23 | 169 | 3,406 |
| 08/24 | 1,103 | 4,509 |
| 08/25 | 736 | 5,245 |
| 08/26 | 124 | 5,369 |
| 08/27 | 408 | 5,777 |
| 08/28 | 1,070 | 6,847 |
| 08/29 | 1,940 | 8,787 |
| 08/30 | 249 | 9,036 |
| 08/31 | 0 | 9,036 |
| 09/01 | 863 | 9,899 |
| 09/02 | 0 | 9,899 |
| 09/03 | 154 | 10,053 |
| 09/04 | 37 | 10,090 |
| 09/05 | 53 | 10,143 |
| 09/06 | 3,052 | 13,195 |
| 09/07 | 70 | 13,265 |
| 09/08 | 104 | 13,369 |
| 09/09 | 168 | 13,537 |
| 09/10 | 139 | 13,676 |
| 09/11 | 17 | 13,693 |
| 09/12 | 556 | 14,249 |
| 09/13 | 1,024 | 15,273 |
| 09/14 | 97 | 15,370 |
| 09/15 | 33 | 15,403 |
| 09/16 | 334 | 15,737 |
| 09/17 | 8 | 15,745 |
| 09/18 | 0 | 15,745 |
| 09/19 | 713 | 16,458 |
| 09/20 | 49 | 16,507 |
| 09/21 | 5 | 16,512 |
| 09/22 | 311 | 16,823 |
| 09/23 | 165 | 16,988 |
| 09/24 | 302 | 17,290 |
| 09/25 | 11 | 17,301 |
| 09/26 | 217 | 17,518 |
| 09/27 | 50 | 17,568 |
| 09/28 | 148 | 17,716 |
| 09/29 | 0 | 17,716 |
| 09/30 | 10 | 17,726 |

Appendix D.3. Peak aerial escapement estimates by date and location for sockeye and chinook salmon returning to the upper Copper River drainage, 1989.

| | Sockeye | | Chinook | |
|---|---|---|---|---|
| Survey Location | Date | Count | Date | Count |
| Bremner River | | | | |
| Peninsula Lake | 9/13 | 75 | | |
| Steamboat Lake | 9/13 | 425 | | |
| Salmon Creek [a] | 8/4 | 425 | | |
| Price Creek | 8/22 | 0 | | |
| Unnamed Creek #1 | 8/22 | 6 | | |
| Unnamed Creek #2 | 8/22 | 0 | | |
| Unnamed Tributary | 9/13 | 125 | | |
| Tiekel Lake | 8/22 | 20 | | |
| Swan Lakes | | | | |
| Lake #1 | 8/4 | 0 | | |
| Lake #2 | 8/4 | 50 | | |
| Lake #3 | 8/4 | 5 | | |
| Lake #4 | 8/4 | 0 | | |
| Tonsina River [b] | | | | |
| Lower Tonsina Creek | 8/4 | 0 | | |
| Little Tonsina River [c] | | | 8/4 | 65 |
| Fourth of July Creek | | | 8/4 | 0 |
| Tonsina Lake [a] | 10/24 | 2450 | | |
| Greyling Creek [c] | | | 7/28 | 72 |
| Klutina River [b] | NS | | | |
| Manker Creek [c] | | | 7/19 | 165 |
| Mahlo Creek [a] | 7/28 | 4600 | 7/28 | 7 |
| Island Lake | 8/4 | 2280 | | |
| 1884 Lake | 7/28 | 5 | | |
| Hallet Slough Beach [b,d] | 7/28 | 305 | | |
| Curtis Creek | 7/28 | 2 | | |
| St. Anne Creek [a,c] | 7/28 | 3100 | 7/19 | 90 |
| Tazlina River | | | | |
| Upper Mendeltna Creek | 6/30 | 710 | | |
| Mendeltna Creek [a,c] | 8/30 | 2000 | 7/19 | 175 |
| Kiana Creek [c] | 7/28 | 200 | 7/28 | 344 |
| Tazlina Lake [d] | 7/19 | 34 | | |
| Gulkana River | | | | |
| Mouth to West Fork | 8/21 | 6800 | 7/28 | 472 |
| West Fork [c] | 7/27 | 720 | 7/27 | 471 |
| Dog Creek | NS | | | |
| Crosswind Lake | 9/15 | 8000 | | |
| Moose Creek | | | 7/27 | 29 |
| Keg Creek [a] | 7/18 | 1450 | | |
| Victor Creek | 7/18 | 3950 | | |
| West Fork to Middle Fk. [c] | 8/21 | 2400 | 7/28 | 1111 |
| Middle Fork [c] | 7/18 | 100 | 7/18 | 249 |
| Dickey Lake [a,d] | 7/27 | 28 | | |
| Swede Lake [a] | 8/3 | 275 | | |
| Hungry Hollow Creek [c] | | | 7/18 | 44 |

– Continued –

| Survey Location | Sockeye Date | Sockeye Count | Chinook Date | Chinook Count |
|---|---|---|---|---|
| East Fork | | | | |
| East Fork to Paxson Lk. [a, c] | 8/21 | 900 | 7/27 | 89 |
| Paxson Lake | 8/3 | 0 | | |
| Paxson Lake Inlet | 9/19 | 3800 | | |
| Inlet to Mud Creek [a] | 8/3 | 3200 | | |
| Mud Creek and Lake [a] | 8/3 | 0 | | |
| Mud Creek to Summit Lk. [a] | 9/15 | 6800 | | |
| Fish Lake [a d] | 9/15 | 6700 | | |
| Summit Lake | 9/19 | 11200 | | |
| Gunn Greek | 9/28 | 21875 | | |
| Gunn Lake Creek | 10/8 | 1300 | | |
| Gakona River | | | | |
| Spring Creek | | | 7/27 | 109 |
| Alder Creek | 7/27 | 6 | | |
| Drop Creek | | | 7/26 | 3 |
| Tributary by Boulder Creek | | | 7/26 | 19 |
| Bear Creek | | | 7/26 | 2 |
| Chistochina River | | | | |
| East Fork [c] | | | 7/18 | 740 |
| Eagle Creek | 7/26 | 95 | 7/26 | 80 |
| Slana River [b] | | | | |
| Mentasta Lake [a] | 7/26 | 3270 | | |
| Fish Creek [a] | 7/18 | 1500 | | |
| Bad Crossing #1 [a, d] | 7/26 | 525 | | |
| Bad Crossing #2 [a, d] | 7/26 | 2500 | | |
| Bone Creek | 7/18 | 150 | 7/18 | 28 |
| Slana Sloughs | 7/26 | 75 | | |
| Suslositna Lake (New) | 7/26 | 90 | | |
| Suslota Lake [a, d] | 9/15 | 525 | | |
| Indian River [c] | | | 7/26 | 3 |
| Ahtell Creek | | | 7/26 | 0 |
| Tanada Creek | | | | |
| Tanada Lake [a] | 9/15 | 2550 | | |
| Tanada Lake Outlet | 9/28 | 750 | | |
| Copper Creek | | | | |
| Copper Lake [d] | 9/15 | 980 | | |
| Lakina River | | | | |
| Long Lake [a] | 10/24 | 1225 | | |
| Tana River [b] | | | | |
| Tana R. Clear Channels [a] | 8/22 | 155 | | |
| Tana Lake Inlet [a, b] | 8/22 | 75 | | |
| West Fork Channels [a] | 9/13 | 35 | | |
| Totals [e] | | 110,821 | | 4,367 |

[a] Sockeye salmon index stream.
[b] Glacial system.
[c] Chinook salmon index stream.
[d] Count includes numbers of both live and dead fish.
[e] Some peak count totals may include the same group of fish counted during migration as well as on the spawning grounds.

Appendix D.4. Temporally stratified age and sex composition of sockeye salmon in the upper Copper River escapement past the Miles Lake Sonar facility estimated from fish sampled in the personal use and subsitence fisheries near Chitina, 1989.

| | | Brood Year and Age Group | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1987 | 1986 | | 1985 | | | 1984 | | 1983 | | |
| | | 0.1 | 0.2 | 1.1 | 0.3 | 1.2 | 2.1 | 1.3 | 2.2 | 1.4 | 2.3 | Total |
| Stratum Dates: 5/17–6/30[a] | | | | | | | | | | | | |
| Sampling Dates: 6/2–7/9[b] | | | | | | | | | | | | |
| Female | Percent of Sample | 0.0 | 0.2 | 0.0 | 0.4 | 5.2 | 0.1 | 33.0 | 0.9 | 0.1 | 2.6 | 42.4 |
| | Number in Catch | 0 | 721 | 0 | 1,339 | 18,070 | 223 | 115,275 | 3,157 | 446 | 9,093 | 148,325 |
| Male | Percent of Sample | 0.0 | 0.0 | 0.1 | 0.7 | 7.2 | 0.0 | 44.1 | 0.8 | 0.1 | 2.3 | 55.4 |
| | Number in Catch | 0 | 0 | 497 | 2,455 | 25,295 | 0 | 154,178 | 2,934 | 223 | 8,099 | 193,680 |
| Total | Percent of Sample | 0.0 | 0.2 | 0.1 | 1.1 | 13.0 | 0.1 | 78.7 | 1.7 | 0.2 | 4.9 | 100.0 |
| | Number in Catch | 0 | 721 | 497 | 3,793 | 45,355 | 223 | 274,873 | 6,090 | 669 | 17,192 | 349,415 |
| Stratum Dates: 7/1–8/3[a] | | | | | | | | | | | | |
| Sampling Dates: 7/16–7/30[b] | | | | | | | | | | | | |
| Female | Percent of Sample | 0.0 | 0.0 | 0.2 | 0.2 | 20.8 | 0.0 | 21.3 | 0.0 | 0.0 | 0.2 | 42.7 |
| | Number in Catch | 0 | 0 | 595 | 595 | 53,664 | 0 | 55,008 | 0 | 0 | 595 | 110,456 |
| Male | Percent of Sample | 0.2 | 0.2 | 1.8 | 0.0 | 33.3 | 0.0 | 21.2 | 0.0 | 0.0 | 0.0 | 56.8 |
| | Number in Catch | 595 | 595 | 4,737 | 0 | 86,042 | 0 | 54,789 | 0 | 0 | 0 | 146,757 |
| Total | Percent of Sample | 0.2 | 0.2 | 2.1 | 0.2 | 54.3 | 0.0 | 42.7 | 0.0 | 0.0 | 0.2 | 100.0 |
| | Number in Catch | 595 | 595 | 5,331 | 595 | 140,300 | 0 | 110,372 | 0 | 0 | 595 | 258,382 |
| Strata Combined: 5/17–8/3[a] Season Total | | | | | | | | | | | | |
| Sampling Dates: 6/2–7/30[b] | | | | | | | | | | | | |
| Female | Percent of Sample | 0.0 | 0.1 | 0.1 | 0.3 | 11.8 | 0.0 | 28.0 | 0.5 | 0.1 | 1.6 | 42.6 |
| | Number in Catch | 0 | 721 | 595 | 1,933 | 71,734 | 223 | 170,284 | 3,157 | 446 | 9,688 | 258,780 |
| Male | Percent of Sample | 0.1 | 0.1 | 0.9 | 0.4 | 18.3 | 0.0 | 34.4 | 0.5 | 0.0 | 1.3 | 56.0 |
| | Number in Catch | 595 | 595 | 5,234 | 2,455 | 111,337 | 0 | 208,967 | 2,934 | 223 | 8,099 | 340,437 |
| Total | Percent of Sample | 0.1 | 0.2 | 1.0 | 0.7 | 30.5 | 0.0 | 63.4 | 1.0 | 0.1 | 2.9 | 100.0 |
| | Number in Catch | 595 | 1,315 | 5,829 | 4,388 | 185,656 | 223 | 385,246 | 6,090 | 669 | 17,787 | 607,797 |

[a] Dates of passage at Miles Lake estimated from mean travel rates obtained in mark/recapture studies conducted in 1970 and 1972.
[b] Dates fish were sampled in subsistence and personal use fisheries near Chitina.

Appendix D.5. Estimated age and sex composition of chinook salmon carcasses sampled from the Gulkana River, 1989.

| | | Brood Year and Age Group | | | | |
|---|---|---|---|---|---|---|
| | | 1985 | 1984 | 1983 | | |
| | | 1.2 | 1.3 | 1.4 | 2.3 | Total |
| Sample Size: | 138 | | | | | |
| Female | Number of Samples | 1 | 34 | 40 | 1 | 76 |
| | Percent of Sample | 0.7 | 24.6 | 29.0 | 0.7 | 55.1 |
| Male | Number of Samples | 1 | 23 | 37 | 1 | 62 |
| | Percent of Sample | 0.7 | 16.7 | 26.8 | 0.7 | 44.9 |
| Total | Number of Samples | 2 | 57 | 77 | 2 | 138 |
| | Percent of Sample | 1.4 | 41.3 | 55.8 | 1.4 | 100.0 |
| | Standard Error | 1.0 | 4.2 | 4.2 | 1.0 | |

## APPENDIX E

Age and Sex Data for
Commercial Salmon Catches from Prince William Sound
(Districts 221-229).

Appendix E.1. Estimated age and sex composition of sockeye salmon harvested in the Unakwik district commercial common property drift gillnet fishery, 1989.

| | | Brood Year and Age Group | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 1985 | 1984 | | 1983 | | 1982 | |
| | | 1.2 | 1.3 | 2.2 | 1.4 | 2.3 | 2.4 | Total |
| Stratum Dates: | 6/19–8/16 | | | | | | | |
| Sampling Dates: | 6/29 | | | | | | | |
| Sample Size: | 427 | | | | | | | |
| Female | Percent of Sample | 0.5 | 50.1 | 0.5 | 0.7 | 4.2 | 0.0 | 56.0 |
| | Number in Catch | 100 | 10,731 | 100 | 150 | 903 | 0 | 11,985 |
| Male | Percent of Sample | 0.2 | 40.5 | 0.5 | 0.0 | 2.1 | 0.2 | 43.6 |
| | Number in Catch | 50 | 8,675 | 100 | 0 | 451 | 50 | 9,327 |
| Total | Percent of Sample | 0.7 | 91.1 | 0.9 | 0.7 | 6.3 | 0.2 | 100.0 |
| | Number in Catch | 150 | 19,506 | 201 | 150 | 1,354 | 50 | 21,412 |
| | Standard Error | 87 | 295 | 100 | 87 | 252 | 50 | |

Appendix E.2. Temporally stratified age and sex composition of sockeye salmon harvested in the Coghill District commercial common property drift gillnet and purse seine fisheries, 1989.

| | | Brood Year and Age Group | | | | | |
|---|---|---|---|---|---|---|---|
| | | 1985 | 1984 | | 1983 | | |
| | | 1.2 | 1.3 | 2.2 | 1.4 | 2.3 | Total |
| Stratum Dates: | 6/19–6/28 | | | | | | |
| Sampling Dates: | 6/21 | | | | | | |
| Sample Size: | 573 [a] | | | | | | |
| Female | Percent of Sample | 0.3 | 37.2 | 0.0 | 0.3 | 1.2 | 39.1 |
| | Number in Catch | 267 | 28,469 | 0 | 267 | 936 | 29,939 |
| Male | Percent of Sample | 0.2 | 58.6 | 0.2 | 0.3 | 1.6 | 60.9 |
| | Number in Catch | 134 | 44,909 | 134 | 267 | 1,203 | 46,647 |
| Total | Percent of Sample | 0.5 | 95.8 | 0.2 | 0.7 | 2.8 | 100.0 |
| | Number in Catch | 401 | 73,378 | 134 | 535 | 2,139 | 76,586 |
| | Standard Error | 231 | 641 | 134 | 267 | 528 | |
| Stratum Dates: | 7/03–9/15 | | | | | | |
| Sampling Dates: | 7/04 | | | | | | |
| Sample Size: | 554 [a, b] | | | | | | |
| Female | Percent of Sample | 1.1 | 71.5 | 1.1 | 0.2 | 3.2 | 77.1 |
| | Number in Catch | 342 | 22,558 | 342 | 57 | 1,025 | 24,324 |
| Male | Percent of Sample | 0.5 | 20.8 | 0.7 | 0.0 | 0.9 | 22.9 |
| | Number in Catch | 171 | 6,551 | 228 | 0 | 285 | 7,234 |
| Total | Percent of Sample | 1.6 | 92.2 | 1.8 | 0.2 | 4.2 | 100.0 |
| | Number in Catch | 513 | 29,109 | 570 | 57 | 1,310 | 31,558 |
| | Standard Error | 170 | 359 | 179 | 57 | 268 | |
| Strata Combined: | 6/19–9/15 | | | | | | |
| Sampling Dates: | 6/24,7/04 | | | | | | |
| Sample Size: | 1,127 | | | | | | |
| Female | Percent of Sample | 0.6 | 47.2 | 0.3 | 0.3 | 1.8 | 50.2 |
| | Number in Catch | 609 | 51,027 | 342 | 324 | 1,961 | 54,263 |
| Male | Percent of Sample | 0.3 | 47.6 | 0.3 | 0.2 | 1.4 | 49.8 |
| | Number in Catch | 305 | 51,460 | 362 | 267 | 1,488 | 53,881 |
| Total | Percent of Sample | 0.8 | 94.8 | 0.7 | 0.5 | 3.2 | 100.0 |
| | Number in Catch | 914 | 102,487 | 703 | 592 | 3,449 | 108,144 |
| | Standard Error | 287 | 735 | 223 | 273 | 592 | |

[a] Samples collected from commercial fishing periods restricted to the use of drift gill nets only.
[b] Age and sex composition of purse seine harvest (2,030 fish) from 7/26–8/28 estimated using drift gill net samples due to lack of appropriate samples for this gear type.

Appendix E.3. Temporally stratified age and sex composition of chum salmon harvested in the Eastern District commercial common property purse seine fishery, 1989.

| | | Brood Year and Age Group | | | | |
|---|---|---|---|---|---|---|
| | | 1986 | 1985 | 1984 | 1983 | |
| | | 0.2 | 0.3 | 0.4 | 0.5 | Total |
| Stratum Dates: | 6/28 | | | | | |
| Sampling Dates: | 6/28 | | | | | |
| Sample Size: | 431 | | | | | |
| Female | Percent of Sample | 0.0 | 30.6 | 13.0 | 5.8 | 49.4 |
| | Number in Catch | 0 | 12,954 | 5,496 | 2,453 | 20,903 |
| Male | Percent of Sample | 0.2 | 31.3 | 12.5 | 6.5 | 50.6 |
| | Number in Catch | 98 | 13,248 | 5,299 | 2,748 | 21,394 |
| Total | Percent of Sample | 0.2 | 61.9 | 25.5 | 12.3 | 100.0 |
| | Number in Catch | 98 | 26,203 | 10,795 | 5,201 | 42,297 |
| | Standard Error | 98 | 990 | 889 | 670 | |
| Stratum Dates: | 7/05–7/15 | | | | | |
| Sampling Dates: | 7/13 | | | | | |
| Sample Size: | 417 | | | | | |
| Female | Percent of Sample | 0.2 | 32.6 | 16.5 | 4.6 | 54.0 |
| | Number in Catch | 69 | 9,330 | 4,734 | 1,303 | 15,435 |
| Male | Percent of Sample | 0.0 | 23.7 | 14.9 | 7.4 | 46.0 |
| | Number in Catch | 0 | 6,792 | 4,253 | 2,127 | 13,172 |
| Total | Percent of Sample | 0.2 | 56.4 | 31.4 | 12.0 | 100.0 |
| | Number in Catch | 69 | 16,121 | 8,987 | 3,430 | 28,607 |
| | Standard Error | 69 | 696 | 651 | 456 | |
| Stratum Dates: | 8/10–8/29 | | | | | |
| Sampling Dates: | 8/12 | | | | | |
| Sample Size: | 392 | | | | | |
| Female | Percent of Sample | 0.5 | 53.3 | 3.8 | 0.0 | 57.7 |
| | Number in Catch | 1,379 | 144,081 | 10,341 | 0 | 155,800 |
| Male | Percent of Sample | 0.0 | 38.8 | 3.3 | 0.3 | 42.3 |
| | Number in Catch | 0 | 104,786 | 8,962 | 689 | 114,438 |
| Total | Percent of Sample | 0.5 | 92.1 | 7.1 | 0.3 | 100.0 |
| | Number in Catch | 1,379 | 248,867 | 19,303 | 689 | 270,238 |
| | Standard Error | 974 | 3,688 | 3,520 | 689 | |
| Strata Combined: | 6/28–8/29 | | | | | |
| Sampling Dates: | 6/28–8/12 | | | | | |
| Sample Size: | 1,240 | | | | | |
| Female | Percent of Sample | 0.4 | 48.8 | 6.0 | 1.1 | 56.3 |
| | Number in Catch | 1,447 | 166,365 | 20,570 | 3,757 | 192,139 |
| Male | Percent of Sample | 0.0 | 36.6 | 5.4 | 1.6 | 43.7 |
| | Number in Catch | 98 | 124,826 | 18,515 | 5,564 | 149,003 |
| Total | Percent of Sample | 0.5 | 85.4 | 11.5 | 2.7 | 100.0 |
| | Number in Catch | 1,546 | 291,191 | 39,085 | 9,321 | 341,142 |
| | Standard Error | 981 | 3,882 | 3,688 | 1,064 | |

Appendix E.4 Temporally stratified age and sex composition of chum salmon harvested in the Northern District commercial common property purse seine fishery, 1989.

| | | Brood Year and Age Group | | | | | |
|---|---|---|---|---|---|---|---|
| | | 1986 | 1985 | 1984 | 1983 | 1982 | |
| | | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | Total |
| Stratum Dates: | 6/28–7/05 | | | | | | |
| Sampling Dates: | 6/28–6/29 | | | | | | |
| Sample Size: | 409 | | | | | | |
| Female | Percent of Sample | 0.0 | 31.3 | 19.6 | 3.2 | 0.2 | 54.3 |
| | Number in Catch | 0 | 24,729 | 15,455 | 2,512 | 193 | 42,889 |
| Male | Percent of Sample | 0.2 | 23.0 | 17.1 | 5.4 | 0.0 | 45.7 |
| | Number in Catch | 193 | 18,160 | 13,524 | 4,250 | 0 | 36,127 |
| Total | Percent of Sample | 0.2 | 54.3 | 36.7 | 8.6 | 0.2 | 100.0 |
| | Number in Catch | 193 | 42,889 | 28,979 | 6,762 | 193 | 79,016 |
| | Standard Error | 193 | 1,949 | 1,885 | 1,094 | 193 | |
| Stratum Dates: | 7/12–7/30 | | | | | | |
| Sampling Dates: | 7/27–7/28 | | | | | | |
| Sample Size: | 382 | | | | | | |
| Female | Percent of Sample | 1.3 | 46.9 | 6.8 | 1.6 | 0.0 | 56.5 |
| | Number in Catch | 679 | 24,319 | 3,532 | 815 | 0 | 29,346 |
| Male | Percent of Sample | 0.5 | 34.3 | 6.5 | 1.8 | 0.3 | 43.5 |
| | Number in Catch | 272 | 17,798 | 3,397 | 951 | 136 | 22,553 |
| Total | Percent of Sample | 1.8 | 81.2 | 13.4 | 3.4 | 0.3 | 100.0 |
| | Number in Catch | 951 | 42,117 | 6,929 | 1,766 | 136 | 51,899 |
| | Standard Error | 357 | 1,040 | 904 | 482 | 136 | |
| Stratum Dates: | 8/13–8/24 | | | | | | |
| Sampling Dates: | 8/11 | | | | | | |
| Sample Size: | 403 | | | | | | |
| Female | Percent of Sample | 1.2 | 53.8 | 3.5 | 0.0 | 0.0 | 58.6 |
| | Number in Catch | 772 | 33,514 | 2,162 | 0 | 0 | 36,448 |
| Male | Percent of Sample | 0.0 | 39.5 | 2.0 | 0.0 | 0.0 | 41.4 |
| | Number in Catch | 0 | 24,556 | 1,236 | 0 | 0 | 25,792 |
| Total | Percent of Sample | 1.2 | 93.3 | 5.5 | 0.0 | 0.0 | 100.0 |
| | Number in Catch | 772 | 58,070 | 3,398 | 0 | 0 | 62,240 |
| | Standard Error | 344 | 776 | 705 | 0 | 0 | |
| Strata Combined: | 6/28–8/24 | | | | | | |
| Sampling Dates: | 6/28–8/11 | | | | | | |
| Sample Size: | 1,194 | | | | | | |
| Female | Percent of Sample | 0.8 | 42.7 | 10.9 | 1.7 | 0.1 | 56.3 |
| | Number in Catch | 1,452 | 82,562 | 21,150 | 3,327 | 193 | 108,683 |
| Male | Percent of Sample | 0.2 | 31.3 | 9.4 | 2.7 | 0.1 | 43.7 |
| | Number in Catch | 465 | 60,514 | 18,156 | 5,201 | 136 | 84,472 |
| Total | Percent of Sample | 1.0 | 74.1 | 20.3 | 4.4 | 0.2 | 100.0 |
| | Number in Catch | 1,916 | 143,076 | 39,306 | 8,528 | 329 | 193,155 |
| | Standard Error | 532 | 2,341 | 2,207 | 1,196 | 236 | |

Appendix E.5. Temporally stratified age and sex composition of chum salmon harvested in the Coghill District commercial common property gillnet and purse seine fisheries, 1989.

| | | Brood Year and Age Group | | | | |
|---|---|---|---|---|---|---|
| | | 1986 | 1985 | 1984 | 1983 | |
| | | 0.2 | 0.3 | 0.4 | 0.5 | Total |
| Stratum Dates: | 6/19–7/03 | | | | | |
| Sampling Dates: | 6/20 | | | | | |
| Sample Size: | 390 [a] | | | | | |
| Female | Percent of Sample | 0.0 | 25.6 | 26.4 | 4.9 | 56.9 |
| | Number in Catch | 0 | 23,995 | 24,715 | 4,559 | 53,269 |
| Male | Percent of Sample | 0.5 | 17.9 | 20.3 | 4.4 | 43.1 |
| | Number in Catch | 480 | 16,797 | 18,956 | 4,079 | 40,312 |
| Total | Percent of Sample | 0.5 | 43.6 | 46.7 | 9.2 | 100.0 |
| | Number in Catch | 480 | 40,792 | 43,671 | 8,638 | 93,581 |
| | Standard Error | 339 | 2,353 | 2,367 | 1,373 | |
| Stratum Dates: | 7/26–9/06 | | | | | |
| Sampling Dates: | 7/28 | | | | | |
| Sample Size: | 389 [b] | | | | | |
| Female | Percent of Sample | 1.5 | 64.0 | 3.1 | 0.0 | 68.6 |
| | Number in Catch | 3,480 | 144,434 | 6,961 | 0 | 154,875 |
| Male | Percent of Sample | 0.0 | 29.6 | 1.8 | 0.0 | 31.4 |
| | Number in Catch | 0 | 66,707 | 4,060 | 0 | 70,767 |
| Total | Percent of Sample | 1.5 | 93.6 | 4.9 | 0.0 | 100.0 |
| | Number in Catch | 3,480 | 211,141 | 11,021 | 0 | 225,642 |
| | Standard Error | 1,412 | 2,809 | 2,469 | 0 | |
| Strata Combined: | 6/19–9/06 | | | | | |
| Sampling Dates: | 6/20–7/28 | | | | | |
| Sample Size: | 779 | | | | | |
| Female | Percent of Sample | 1.1 | 52.8 | 9.9 | 1.4 | 65.2 |
| | Number in Catch | 3,480 | 168,429 | 31,676 | 4,559 | 208,144 |
| Male | Percent of Sample | 0.2 | 26.2 | 7.2 | 1.3 | 34.8 |
| | Number in Catch | 480 | 83,503 | 23,017 | 4,079 | 111,079 |
| Total | Percent of Sample | 1.2 | 78.9 | 17.1 | 2.7 | 100.0 |
| | Number in Catch | 3,960 | 251,932 | 54,692 | 8,638 | 319,223 |
| | Standard Error | 1,452 | 3,664 | 3,420 | 1,373 | |

[a] Commercial fishery restricted to drift gill nets only.

[b] Age composition for this stratum was estimated for gill net and purse seine catches combined due to significant intermixing of fish from the two gear types by fishermen and processors.

Appendix E.6. Temporally stratified age and sex composition of chum salmon harvested in the Main Bay hatchery cost recovery purse seine fishery, Eshamy District, 1989.

| | | Brood Year and Age Group | | | | | |
|---|---|---|---|---|---|---|---|
| | | 1987 | 1986 | 1985 | 1984 | 1983 | |
| | | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | Total |
| Stratum Dates: | 6/14–6/30 | | | | | | |
| Sampling Dates: | 6/21 | | | | | | |
| Sample Size: | 398 | | | | | | |
| Female | Percent of Sample | 0.0 | 0.5 | 14.6 | 32.2 | 2.0 | 49.2 |
| | Number in Catch | 0 | 246 | 7,129 | 15,733 | 983 | 24,091 |
| Male | Percent of Sample | 0.0 | 0.5 | 11.6 | 34.9 | 3.8 | 50.8 |
| | Number in Catch | 0 | 246 | 5,654 | 17,085 | 1,844 | 24,829 |
| Total | Percent of Sample | 0.0 | 1.0 | 26.1 | 67.1 | 5.8 | 100.0 |
| | Number in Catch | 0 | 492 | 12,783 | 32,818 | 2,827 | 48,920 |
| | Standard Error | 0 | 245 | 1,079 | 1,154 | 573 | |
| Stratum Dates: | 7/01–7/15 | | | | | | |
| Sampling Dates: | 7/07 | | | | | | |
| Sample Size: | 393 | | | | | | |
| Female | Percent of Sample | 0.3 | 3.8 | 30.0 | 17.8 | 1.3 | 53.2 |
| | Number in Catch | 114 | 1,710 | 13,452 | 7,980 | 570 | 23,826 |
| Male | Percent of Sample | 0.0 | 2.3 | 22.6 | 21.4 | 0.5 | 46.8 |
| | Number in Catch | 0 | 1,026 | 10,146 | 9,576 | 228 | 20,976 |
| Total | Percent of Sample | 0.3 | 6.1 | 52.7 | 39.2 | 1.8 | 100.0 |
| | Number in Catch | 114 | 2,736 | 23,598 | 17,556 | 798 | 44,802 |
| | Standard Error | 114 | 542 | 1,130 | 1,105 | 299 | |
| Stratum Dates: | 7/16–8/26 | | | | | | |
| Sampling Dates: | 7/20 | | | | | | |
| Sample Size: | 354 | | | | | | |
| Female | Percent of Sample | 0.0 | 4.2 | 44.1 | 20.1 | 0.3 | 68.6 |
| | Number in Catch | 0 | 385 | 4,005 | 1,823 | 26 | 6,239 |
| Male | Percent of Sample | 0.0 | 2.0 | 18.9 | 10.2 | 0.3 | 31.4 |
| | Number in Catch | 0 | 180 | 1,720 | 924 | 26 | 2,850 |
| Total | Percent of Sample | 0.0 | 6.2 | 63.0 | 30.2 | 0.6 | 100.0 |
| | Number in Catch | 0 | 565 | 5,726 | 2,747 | 51 | 9,089 |
| | Standard Error | 0 | 117 | 234 | 222 | 36 | |
| Strata Combined: | 6/14–8/26 | | | | | | |
| Sampling Dates: | 6/21–7/20 | | | | | | |
| Sample Size: | 1,145 | | | | | | |
| Female | Percent of Sample | 0.1 | 2.3 | 23.9 | 24.8 | 1.5 | 52.7 |
| | Number in Catch | 114 | 2,341 | 24,586 | 25,536 | 1,579 | 54,156 |
| Male | Percent of Sample | 0.0 | 1.4 | 17.0 | 26.8 | 2.0 | 47.3 |
| | Number in Catch | 0 | 1,452 | 17,520 | 27,585 | 2,097 | 48,655 |
| Total | Percent of Sample | 0.1 | 3.7 | 41.0 | 51.7 | 3.6 | 100.0 |
| | Number in Catch | 114 | 3,793 | 42,107 | 53,121 | 3,676 | 102,811 |
| | Standard Error | 114 | 606 | 1,579 | 1,613 | 647 | |

Appendix E.7. Estimated age and sex composition of chum salmon harvested in the Southeastern District commercial common property purse seine fishery, 1989.

| | | Brood Year and Age Group | | | | |
|---|---|---|---|---|---|---|
| | | 1986 | 1985 | 1984 | 1983 | |
| | | 0.2 | 0.3 | 0.4 | 0.5 | Total |
| Stratum Dates: | 7/12–8/11 | | | | | |
| Sampling Dates: | 7/28 | | | | | |
| Sample Size: | 136 | | | | | |
| Female | Percent of Sample | 2.2 | 52.2 | 6.6 | 2.2 | 63.2 |
| | Number in Catch | 17 | 399 | 51 | 17 | 484 |
| Male | Percent of Sample | 0.0 | 30.9 | 5.1 | 0.7 | 36.8 |
| | Number in Catch | 0 | 236 | 39 | 6 | 281 |
| Total | Percent of Sample | 2.2 | 83.1 | 11.8 | 2.9 | 100.0 |
| | Number in Catch | 17 | 636 | 90 | 23 | 765 |
| | Standard Error | 10 | 25 | 21 | 11 | |

Appendix E.8. Temporally stratified age and sex composition of coho salmon harvested in the Coghill District commercial common property drift gillnet and purse seine fisheries, 1989.[a]

| | | Brood Year and Age Group | | | |
|---|---|---|---|---|---|
| | | 1986 | 1985 | 1984 | |
| | | 1.1 | 2.1 | 3.1 | Total |
| Stratum Dates: | 6/19–8/27 | | | | |
| Sampling Dates: | 8/16–8/19 | | | | |
| Sample Size: | 385 | | | | |
| Female | Percent of Sample | 46.8 | 7.3 | 0.3 | 54.3 |
| | Number in Catch | 28,231 | 4,391 | 157 | 32,779 |
| Male | Percent of Sample | 38.4 | 7.0 | 0.3 | 45.7 |
| | Number in Catch | 23,212 | 4,235 | 157 | 27,604 |
| Total | Percent of Sample | 85.2 | 14.3 | 0.5 | 100.0 |
| | Number in Catch | 51,443 | 8,626 | 314 | 60,383 |
| | Standard Error | 1,094 | 1,078 | 222 | |
| Stratum Dates: | 8/28–9/25 | | | | |
| Sampling Dates: | 9/01 | | | | |
| Sample Size: | 453 | | | | |
| Female | Percent of Sample | 56.7 | 0.2 | 0.2 | 57.2 |
| | Number in Catch | 33,948 | 132 | 132 | 34,212 |
| Male | Percent of Sample | 42.6 | 0.2 | 0.0 | 42.8 |
| | Number in Catch | 25,494 | 132 | 0 | 25,626 |
| Total | Percent of Sample | 99.3 | 0.4 | 0.2 | 100.0 |
| | Number in Catch | 59,442 | 264 | 132 | 59,838 |
| | Standard Error | 228 | 187 | 132 | |
| Strata Combined: | 6/19–9/25 | | | | |
| Sampling Dates: | 8/16–9/01 | | | | |
| Sample Size: | 838 | | | | |
| Female | Percent of Sample | 51.7 | 3.8 | 0.2 | 55.7 |
| | Number in Catch | 62,179 | 4,524 | 289 | 66,991 |
| Male | Percent of Sample | 40.5 | 3.6 | 0.1 | 44.3 |
| | Number in Catch | 48,706 | 4,367 | 157 | 53,230 |
| Total | Percent of Sample | 92.2 | 7.4 | 0.4 | 100.0 |
| | Number in Catch | 110,885 | 8,890 | 446 | 120,221 |
| | Standard Error | 1,118 | 1,094 | 258 | |

[a] Age composition for this district was estimated for gill net and purse seine catches combined due to significant intermixing of fish from the two gear types by fishermen and processors.

## APPENDIX F

Salmon Escapements to Coastal Streams in Prince William Sound.

Appendix F.1. Daily escapement counts of sockeye, chinook, pink, and chum salmon through the Coghill River weir, 1989.

| | Sockeye | | Chinook | | Chum | | Pink | |
|---|---|---|---|---|---|---|---|---|
| Date | Daily | Cum. | Daily | Cum. | Daily | Cum. | Daily | Cum. |
| 06/12 | 4 | 4 | | | | | | |
| 06/13 | 0 | 4 | | | | | | |
| 06/14 | 4 | 8 | | | | | | |
| 06/15 | 1 | 9 | | | | | | |
| 06/16 | 4 | 13 | | | | | | |
| 06/17 | 2 | 15 | | | | | | |
| 06/18 | 7 | 22 | | | | | | |
| 06/19 | 361 | 383 | | | | | | |
| 06/20 | 639 | 1022 | | | | | 1 | 1 |
| 06/21 | 141 | 1163 | | | | | 2 | 3 |
| 06/22 | 6 | 1169 | | | | | | 3 |
| 06/23 | 119 | 1288 | | | 4 | 4 | | 3 |
| 06/24 | 32 | 1320 | | | 1 | 5 | | 3 |
| 06/25 | 13 | 1333 | | | | 5 | | 3 |
| 06/26 | 51 | 1384 | | | 1 | 6 | | 3 |
| 06/27 | 168 | 1552 | | | | 6 | | 3 |
| 06/28 | 199 | 1751 | | | | 6 | | 3 |
| 06/29 | 572 | 2323 | | | | 6 | | 3 |
| 06/30 | 1,082 | 3405 | | | | 6 | | 3 |
| 07/01 | 601 | 4006 | 1 | 1 | | 6 | | 3 |
| 07/02 | 501 | 4507 | 0 | 1 | | 6 | 4 | 7 |
| 07/03 | 1,346 | 5853 | 0 | 1 | 2 | 8 | | 7 |
| 07/04 | 761 | 6614 | 1 | 2 | | 8 | 2 | 9 |
| 07/05 | 339 | 6953 | 0 | 2 | | 8 | | 9 |
| 07/06 | 422 | 7375 | 1 | 3 | 1 | 9 | 10 | 19 |
| 07/07 | 339 | 7714 | 0 | 3 | 1 | 10 | 27 | 46 |
| 07/08 | 1,168 | 8882 | 0 | 3 | 3 | 13 | 44 | 90 |
| 07/09 | 486 | 9368 | 2 | 5 | 1 | 14 | 29 | 119 |
| 07/10 | 3,683 | 13051 | 1 | 6 | 16 | 30 | 372 | 491 |
| 07/11 | 5,783 | 18834 | 4 | 10 | 18 | 48 | 1692 | 2183 |
| 07/12 | 2,900 | 21734 | 1 | 11 | 11 | 59 | 757 | 2940 |
| 07/13 | 5,534 | 27268 | 0 | 11 | 19 | 78 | 3272 | 6212 |
| 07/14 | 3,580 | 30848 | 3 | 14 | 41 | 119 | 3847 | 10059 |
| 07/15 | 1,388 | 32236 | 4 | 18 | 37 | 156 | 1345 | 11404 |
| 07/16 | 641 | 32877 | 1 | 19 | 13 | 169 | 458 | 11862 |
| 07/17 | 325 | 33202 | 1 | 20 | 7 | 176 | 768 | 12630 |
| 07/18 | 246 | 33448 | 1 | 21 | 8 | 184 | 1571 | 14201 |
| 07/19 | 155 | 33603 | 0 | 21 | 16 | 200 | 1777 | 15978 |
| 07/20 | 182 | 33785 | 0 | 21 | 23 | 223 | 1075 | 17053 |
| 07/21 | 1,432 | 35217 | 3 | 24 | 27 | 250 | 1477 | 18530 |
| 07/22 | 726 | 35943 | 1 | 25 | 35 | 285 | 3089 | 21619 |
| 07/23 | 692 | 36635 | 1 | 26 | 47 | 332 | 3825 | 25444 |
| 07/24 | 713 | 37348 | 1 | 27 | 49 | 381 | 5526 | 30970 |
| 07/25 | 308 | 37656 | 5 | 32 | 32 | 413 | 2868 | 33838 |
| 07/26 | 95 | 37751 | 2 | 34 | 13 | 426 | 1195 | 35033 |
| Total | | 37,751 | | 34 | | 426 | | 35,033 |

Appendix F.2. Daily escapement counts of sockeye, chinook, chum, and pink salmon through the weir at the head of Eshamy Lagoon, 1989.

| Date | Sockeye | | Chinook | | Chum | | Pink | |
|---|---|---|---|---|---|---|---|---|
| | Daily | Cum. | Daily | Cum. | Daily | Cum. | Daily | Cum. |
| 06/15 | 0 | 0 | | | | | | |
| 06/16 | 0 | 0 | | | | | | |
| 06/17 | 0 | 0 | | | | | | |
| 06/18 | 23 | 23 | | | | | | |
| 06/19 | 2 | 25 | | | | | | |
| 06/20 | 8 | 33 | | | | | | |
| 06/21 | 0 | 33 | | | | | | |
| 06/22 | 1 | 34 | | | | | | |
| 06/23 | 1 | 35 | | | | | | |
| 06/24 | 2 | 37 | | | | | | |
| 06/25 | 0 | 37 | | | | | | |
| 06/26 | 0 | 37 | | | | | | |
| 06/27 | 25 | 62 | | | | | | |
| 06/28 | 22 | 84 | | | | | | |
| 06/29 | 185 | 269 | | | | | | |
| 06/30 | 9 | 278 | | | | | | |
| 07/01 | 0 | 278 | | | | | | |
| 07/02 | 0 | 278 | | | | | | |
| 07/03 | 0 | 278 | | | | | | |
| 07/04 | 0 | 278 | | | | | | |
| 07/05 | 0 | 278 | | | | | | |
| 07/06 [a] | 50 | 328 | | | 2 | 2 | | |
| 07/07 | 3 | 331 | | | | 2 | | |
| 07/08 | 0 | 331 | | | | 2 | | |
| 07/09 | 372 | 703 | | | | 2 | | |
| 07/10 | 7 | 710 | | | | 2 | | |
| 07/11 | 11 | 721 | | | | 2 | | |
| 07/12 | 127 | 848 | | | 2 | 4 | | |
| 07/13 | 63 | 911 | | | 3 | 7 | | |
| 07/14 | 3 | 914 | | | | 7 | | |
| 07/15 | 0 | 914 | | | | 7 | | |
| 07/16 | 175 | 1,089 | | | 4 | 11 | | |
| 07/17 | 88 | 1,177 | | | | 11 | | |
| 07/18 | 341 | 1,518 | | | 6 | 17 | | |
| 07/19 | 102 | 1,620 | | | 2 | 19 | | |
| 07/20 | 150 | 1,770 | | | 11 | 30 | | |
| 07/21 | 190 | 1,960 | | | 38 | 68 | | |
| 07/22 | 80 | 2,040 | | | 18 | 86 | | |
| 07/23 | 163 | 2,203 | | | 15 | 101 | 2 | 2 |
| 07/24 | 4,680 | 6,883 | | | 32 | 133 | 6 | 8 |
| 07/25 | 6,660 | 13,543 | | | 23 | 156 | 65 | 73 |
| 07/26 | 3,179 | 16,722 | | | 5 | 161 | 23 | 96 |
| 07/27 | 742 | 17,464 | | | 5 | 166 | 4 | 100 |
| 07/28 | 557 | 18,021 | | | 5 | 171 | 6 | 106 |
| 07/29 | 470 | 18,491 | | | 3 | 174 | 3 | 109 |
| 07/30 | 4,800 | 23,291 | | | 14 | 188 | 76 | 185 |
| 07/31 | 1,453 | 24,744 | | | 3 | 191 | 16 | 201 |
| 08/01 | 1,474 | 26,218 | | | 3 | 194 | 9 | 210 |
| 08/02 | 883 | 27,101 | | | 0 | 194 | 3 | 213 |
| 08/03 | 1,304 | 28,405 | | | 4 | 198 | 12 | 225 |

–Continued–

Appendix F.2. (Pg 2 of 2)

| Date | Sockeye | | Chinook | | Chum | | Pink | |
|---|---|---|---|---|---|---|---|---|
| | Daily | Cum. | Daily | Cum. | Daily | Cum. | Daily | Cum. |
| 08/04 | 812 | 29,217 | | | 0 | 198 | 31 | 256 |
| 08/05 | 1,028 | 30,245 | | | 1 | 199 | 16 | 272 |
| 08/06 | 352 | 30,597 | | | 0 | 199 | 2 | 274 |
| 08/07 | 1,207 | 31,804 | | | 2 | 201 | 26 | 300 |
| 08/08 | 1,216 | 33,020 | 1 | 1 | 0 | 201 | 58 | 358 |
| 08/09 | 711 | 33,731 | | 1 | 0 | 201 | 42 | 400 |
| 08/10 | 399 | 34,130 | | 1 | 0 | 201 | 64 | 464 |
| 08/11 | 957 | 35,087 | | 1 | | 201 | 78 | 542 |
| 08/12 | 525 | 35,612 | | 1 | | 201 | 23 | 565 |
| 08/13 | 1,189 | 36,801 | | 1 | | 201 | 124 | 689 |
| 08/14 | 1,323 | 38,124 | | 1 | | 201 | 122 | 811 |
| 08/15 | 448 | 38,572 | | 1 | | 201 | 96 | 907 |
| 08/16 | 1,040 | 39,612 | | 1 | 1 | 202 | 140 | 1,047 |
| 08/17 | 743 | 40,355 | | 1 | | 202 | 147 | 1,194 |
| 08/18 | 2,038 | 42,393 | | 1 | | 202 | 874 | 2,068 |
| 08/19 | 2,050 | 44,443 | | 1 | | 202 | 560 | 2,628 |
| 08/20 | 1,206 | 45,649 | | 1 | | 202 | 272 | 2,900 |
| 08/21 | 1,301 | 46,950 | | 1 | | 202 | 620 | 3,520 |
| 08/22 | 1,609 | 48,559 | | 1 | | 202 | 712 | 4,232 |
| 08/23 | 362 | 48,921 | | 1 | | 202 | 131 | 4,363 |
| 08/24 | 746 | 49,667 | | 1 | 0 | 202 | 269 | 4,632 |
| 08/25 | 1,706 | 51,373 | | 1 | | 202 | 666 | 5,298 |
| 08/26 | 759 | 52,132 | | 1 | 1 | 203 | 188 | 5,486 |
| 08/27 | 315 | 52,447 | | 1 | 3 | 206 | 77 | 5,563 |
| 08/28 | 385 | 52,832 | | 1 | 1 | 207 | 58 | 5,621 |
| 08/29 [b] | 3,500 | 56,332 | | 1 | | 207 | 450 | 6,071 |
| 08/30 | 254 | 56,586 | | 1 | 1 | 208 | 68 | 6,139 |
| 08/31 | 597 | 57,183 | | 1 | 2 | 210 | 144 | 6,283 |
| 09/01 | 238 | 57,421 | | 1 | | 210 | 58 | 6,341 |
| 09/02 | 150 | 57,571 | | 1 | | 210 | 54 | 6,395 |
| 09/03 | 58 | 57,629 | | 1 | | 210 | 136 | 6,531 |
| 09/04 | 122 | 57,751 | | 1 | | 210 | 297 | 6,828 |
| 09/05 | 99 | 57,850 | | 1 | | 210 | 233 | 7,061 |
| 09/06 | 46 | 57,896 | | 1 | | 210 | 124 | 7,185 |
| 09/07 | 81 | 57,977 | | 1 | | 210 | 97 | 7,282 |
| 09/08 | 150 | 58,127 | | 1 | | 210 | 500 | 7,782 |
| Totals | | 58,127 | | 1 | | 210 | | 7,782 |

[a] Adult weir installed. Counts prior to this date were obtained from FRED Division smolt weir.
[b] Weir open for 8 hr due to high water.

Appendix F.3. Daily escapement counts of sockeye, chinook, coho, pink, and chum salmon through the Jackpot weir, 1989.

| | Sockeye | | Chinook | | Coho | | Pink | | Chum | |
|---|---|---|---|---|---|---|---|---|---|---|
| Date | Daily | Cum. | Daily | Cum. | Daily | Cum. | Daily | Cum. | Daily | Cum. |
| 01–Jul | 242 | 242 | | | | | | | | |
| 02–Jul | 67 | 309 | | | | | | | | |
| 03–Jul | 6 | 315 | | | | | | | | |
| 04–Jul | 48 | 363 | | | | | | | | |
| 05–Jul | 799 | 1162 | | | | | | | | |
| 06–Jul | 17 | 1179 | | | | | | | | |
| 07–Jul | 73 | 1252 | 1 | 1 | | | | | | |
| 08–Jul | 37 | 1289 | | 1 | | | | | | |
| 09–Jul | 119 | 1408 | 1 | 2 | | | | | | |
| 10–Jul | 136 | 1544 | | 2 | | | | | | |
| 11–Jul | 205 | 1749 | | 2 | | | | | | |
| 12–Jul | 0 | 1749 | | 2 | | | | | | |
| 13–Jul | 0 | 1749 | | 2 | | | | | | |
| 14–Jul | 20 | 1769 | | 2 | | | | | | |
| 15–Jul | 0 | 1769 | | 2 | | | | | | |
| 16–Jul | 0 | 1769 | 1 | 3 | | | | | | |
| 17–Jul | 82 | 1851 | | 3 | | | 5 | 5 | | |
| 18–Jul | 11 | 1862 | | 3 | | | 5 | 10 | | |
| 19–Jul | 29 | 1891 | | 3 | | | 7 | 17 | | |
| 20–Jul | 45 | 1936 | | 3 | | | 7 | 24 | | |
| 21–Jul | 88 | 2024 | | 3 | | | 65 | 89 | | |
| 22–Jul | 65 | 2089 | | 3 | | | 195 | 284 | 1 | 1 |
| 23–Jul | 6 | 2095 | | 3 | | | 18 | 302 | | 1 |
| 24–Jul | 191 | 2286 | | 3 | | | 465 | 767 | 4 | 5 |
| 25–Jul | 465 | 2751 | | 3 | 12 | 12 | 1008 | 1775 | 5 | 10 |
| 26–Jul | 5 | 2756 | | 3 | | 12 | 33 | 1808 | | 10 |
| 27–Jul | 32 | 2788 | | 3 | | 12 | 15 | 1823 | | 10 |
| 28–Jul | 23 | 2811 | | 3 | 1 | 13 | 9 | 1832 | 1 | 11 |
| 29–Jul | 24 | 2835 | | 3 | 10 | 23 | 186 | 2018 | 0 | 11 |
| 30–Jul | 0 | 2835 | | 3 | | 23 | | 2018 | | 11 |
| 31–Jul | 18 | 2853 | 1 | 4 | 1 | 24 | 307 | 2325 | 3 | 14 |
| 01–Aug | 24 | 2877 | | 4 | 1 | 25 | 182 | 2507 | 1 | 15 |
| 02–Aug | 15 | 2892 | | 4 | 1 | 26 | 241 | 2748 | 3 | 18 |
| 03–Aug | 16 | 2908 | | 4 | 12 | 38 | 249 | 2997 | 1 | 19 |
| 04–Aug | 15 | 2923 | 1 | 5 | 9 | 47 | 470 | 3467 | | 19 |
| 05–Aug | 12 | 2935 | 1 | 6 | 21 | 68 | 816 | 4283 | | 19 |
| 06–Aug | 3 | 2938 | | 6 | 2 | 70 | 74 | 4357 | | 19 |
| 07–Aug | 11 | 2949 | 2 | 8 | 129 | 199 | 4212 | 8569 | 5 | 24 |
| 08–Aug | 6 | 2955 | | 8 | 16 | 215 | 867 | 9436 | 4 | 28 |
| 09–Aug | 14 | 2969 | | 8 | 19 | 234 | 1006 | 10442 | 2 | 30 |
| 10–Aug | 3 | 2972 | | 8 | 24 | 258 | 356 | 10798 | 1 | 31 |
| 11–Aug | 3 | 2975 | | 8 | 2 | 260 | 106 | 10904 | 3 | 34 |
| 12–Aug | 5 | 2980 | | 8 | 2 | 262 | 30 | 10934 | 0 | 34 |
| 13–Aug | 3 | 2983 | | 8 | 0 | 262 | 99 | 11033 | 0 | 34 |
| 14–Aug [a] | 0 | 2983 | | 8 | 0 | 262 | 73 | 11106 | 0 | 34 |
| Totals | | 2,983 | | 8 | | 262 | | 11,106 | | 34 |

[a] Totals do not include an estimated 1,500 fish of unknown species holding below the weir at removal.

Appendix F.4. Sockeye salmon aerial escapement counts from selected systems in Prince William Sound, 1989.[a]

| Stream Name | Stream Number | Weekly Count (week ending dates) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 08–Jul | 15–Jul | 22–Jul | 29–Jul | 05–Aug | 12–Aug | 19–Aug | 26–Aug | 16–Sep |
| Robe River[b] | 137 | | | | | | | | | |
| Billy's Hole | 218 | | 200 | 400 | 2,500 | | 600 | 80 | 50 | |
| Red Lake | 300 | | | | 1,000 | | 400 | 200 | 100 | |
| Halferty Creek | 454 | | | | | | | 120 | | |
| Cochrane Creek | 461 | | | | | | 70 | | | |
| Shrode Lake | 476 | | 40 | 200 | 200 | | 1,070 | 280 | | |
| Jackpot Lakes | 608 | 1,500 | | 1,900 | 3,000 | 2,200 | 200 | 50 | | |
| Bainbridge | 630 | 70 | | 300 | 1,600 | 800 | 300 | 50 | | 5 |
| Point Creek[b] | 702 | | | | | | | | | |
| Cabin Creek[b] | 747 | | | | | | | | | |
| Udall Creek[b] | 770 | | | | | | | | | |
| Pautzke Creek[b] | 775 | | | | | | | | | |
| Total | | 1,570 | 240 | 2,800 | 8,300 | 3,000 | 2,640 | 780 | 150 | 5 |

[a] Counts contained in this table are obtained in conjunction with the regular pink and chum aerial survey program. Many of these sockeye systems are difficult to survey by air, and thus the counts do not necessarily represent total live abundance at a particular time.

[b] No sockeye counts obtained in 1989.

Appendix F.5. Weekly aerial estimates of the escapement of live pink salmon to selected streams in Prince William Sound, 1989.

| District | Stream Number | Name | Week Ending Date 6/24 | 7/01 | 7/08 | 7/15 | 7/22 | 7/29 | 8/05 | 8/12 | 8/19 | 8/26 | 9/02 | 9/09 | 9/16 | 9/23 | /30 | Total | Adjusted Total | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eastern | 2 | Hartney Creek | NS | NS | NS | 10 | 100 | 600 | 1,600 | 2,100 | 1,300 | NS | NS | NS | NS | NS | NS | 5,710 | 2,290 | |
| | 5 | Eccles Creek | NS | NS | NS | 0 | 0 | 0 | 0 | 30 | 70 | NS | NS | NS | NS | NS | NS | 100 | 70 | peak |
| | 8 | Fleming Creek | 0 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | 0 | 0 | |
| | 11 | Humpy Creek | 0 | 0 | 0 | 50 | 850 | 1,700 | 3,700 | 4,400 | 4,000 | 1,800 | NS | NS | 100 | NS | NS | 16,600 | 7,430 | |
| | | Orca Inlet 221-10 | 0 | 0 | 0 | 60 | 950 | 2,300 | 5,300 | 6,530 | 5,370 | 1,800 | 0 | 0 | 100 | 0 | 0 | 22,410 | 9,790 | |
| | 19 | Twin Lakes Creek | 0 | 0 | 0 | 0 | 0 | 50 | 500 | 300 | 400 | 700 | NS | NS | 0 | NS | NS | 1,950 | 810 | |
| | 20 | Spring Creek | 0 | 0 | 0 | 0 | 200 | 150 | 300 | 1,700 | 1,300 | 900 | NS | NS | 50 | NS | NS | 4,600 | 2,340 | |
| | 21 | Rogue Creek | 0 | 0 | 0 | 400 | 450 | 800 | 0 | 1,500 | 200 | 60 | NS | NS | 50 | NS | NS | 3,460 | 1,670 | |
| | 23 | Chase Creek | 0 | 0 | 0 | 0 | 300 | 0 | 1,500 | 500 | 1,000 | 1,100 | NS | NS | 0 | NS | NS | 4,400 | 1,940 | |
| | 35 | Koppen Creek | 0 | 0 | 0 | 500 | 2,000 | 2,700 | 1,900 | 6,700 | 11,300 | 12,300 | NS | NS | 4,000 | NS | NS | 41,400 | 23,380 | |
| | 36 | Sheep River | 0 | 0 | 0 | 0 | 0 | 500 | 5,400 | 12,000 | 3,000 | 2,800 | NS | NS | 1,800 | NS | NS | 25,500 | 12,340 | |
| | 37 | Allen Creek | 0 | 0 | 0 | 0 | 50 | 20 | 1,900 | 500 | 1,100 | 1,500 | NS | NS | 20 | NS | NS | 5,090 | 2,670 | |
| | | Simpson/Sheep 221-20 | 0 | 0 | 0 | 900 | 3,000 | 4,220 | 11,500 | 23,200 | 18,300 | 19,360 | 0 | 0 | 5,920 | 0 | 0 | 86,400 | 45,150 | |
| | 41 | Pass Creek | 0 | 0 | 0 | 0 | 0 | 0 | 400 | 200 | 900 | 900 | NS | NS | 0 | NS | NS | 2,400 | 1,200 | |
| | 45 | Plateau Creek | 0 | 0 | 0 | 0 | 0 | 0 | 2,000 | 2,500 | 3,400 | 2,200 | NS | NS | 0 | NS | NS | 10,100 | 5,240 | |
| | 46 | Comfort Creek | 0 | 0 | 50 | 50 | 150 | 350 | 3,000 | 8,500 | 4,500 | 4,200 | NS | NS | 20 | NS | NS | 20,820 | 10,050 | |
| | 48 | Beartrap River | 0 | 0 | 0 | 0 | 0 | 400 | 13,000 | 10,000 | 19,000 | 17,200 | NS | NS | 2,700 | NS | NS | 62,300 | 33,120 | |
| | 49 | Cataract Creek | 0 | 0 | 0 | 0 | 0 | 0 | 700 | 200 | 400 | 500 | NS | NS | 20 | NS | NS | 1,820 | 1,360 | |
| | 51 | Olsen Creek | 0 | 0 | 0 | 400 | 0 | 10,000 | 9,000 | 12,700 | 8,600 | 8,400 | NS | NS | 1,100 | NS | NS | 50,200 | 24,120 | |
| | 52 | Control Creek | 0 | 0 | 0 | 200 | 400 | 2,200 | 3,500 | 10,200 | 7,600 | 5,700 | NS | NS | 200 | NS | NS | 30,000 | 14,480 | |
| | 54 | Carlsen Creek | 0 | 0 | 0 | 0 | 0 | 20 | 2,400 | 3,000 | 1,900 | 2,000 | NS | NS | 100 | NS | NS | 9,420 | 4,620 | |
| | 56 | St. Matthews Creek | 0 | 0 | 50 | 50 | 100 | 200 | 4,700 | 3,000 | 6,000 | 5,000 | NS | NS | 3,800 | NS | NS | 22,900 | 12,710 | |
| | | Gravina 221-30 | 0 | 0 | 100 | 700 | 650 | 13,170 | 38,700 | 50,300 | 52,300 | 46,100 | 0 | 0 | 7,940 | 0 | 0 | 209,960 | 106,900 | |
| | 71 | Two Moon Creek | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | 0 | 0 | |
| | 73 | Tundra Creek | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | 0 | 0 | |
| | 76 | Irish Creek | 0 | 0 | 2 | 100 | 100 | 300 | 3,600 | 17,000 | 10,200 | 5,000 | NS | NS | 350 | NS | NS | 36,652 | 17,000 | peak |
| | 80 | Whalen Creek | 0 | 0 | 150 | 200 | 800 | 2,000 | 6,000 | 7,000 | 5,300 | 5,300 | NS | NS | 400 | NS | NS | 27,150 | 13,230 | |
| | 83 | Keta Creek | 0 | 0 | 0 | 0 | 50 | 450 | 2,000 | 300 | 0 | 0 | NS | NS | 1,100 | NS | NS | 3,900 | 2,030 | |
| | 87 | Sunny River | 0 | 0 | 0 | 0 | 0 | 0 | 300 | 0 | 300 | 0 | NS | NS | 0 | NS | NS | 600 | 420 | |
| | 88 | Short Creek | 0 | 0 | 0 | 0 | 0 | 400 | 1,000 | 715 | 700 | 700 | NS | NS | 60 | NS | NS | 3,575 | 1,970 | |
| | 89 | Fish Creek | 0 | 0 | 0 | 200 | 1,200 | 2,700 | 5,000 | 7,500 | 4,000 | 4,100 | NS | NS | 1,500 | NS | NS | 26,200 | 12,840 | |
| | 92 | Shale Creek | 0 | 0 | 0 | 0 | 0 | 0 | 300 | 600 | 300 | 400 | NS | NS | 200 | NS | NS | 1,800 | 1,140 | |
| | 93 | Kirkwood Creek | 0 | 0 | 0 | 0 | 0 | 100 | 400 | 1,000 | 300 | 900 | NS | NS | 20 | NS | NS | 2,720 | 1,520 | |
| | 94 | Rock Creek | 0 | 0 | 0 | 0 | 0 | 0 | 200 | 300 | 2,200 | 2,300 | NS | NS | 30 | NS | NS | 5,030 | 3,060 | |
| | 99 | Lagoon Creek | 0 | 0 | 0 | 0 | 0 | 800 | 3,500 | 3,400 | 3,200 | 2,000 | NS | NS | 300 | NS | NS | 13,200 | 6,680 | |
| | | Fidalgo 221-40 | 0 | 0 | 152 | 500 | 2,150 | 6,750 | 22,300 | 37,815 | 26,500 | 20,700 | 0 | 0 | 3,960 | 0 | 0 | 120,827 | 59,890 | |
| | 106 | Gladhough Creek | 0 | NS | 0 | 0 | 0 | 50 | 1,800 | 900 | 1,700 | 900 | NS | NS | 100 | NS | NS | 5,450 | 2,610 | |
| | 107 | Black Creek | 0 | NS | 0 | 0 | 0 | 0 | 700 | 200 | 100 | 400 | NS | NS | 60 | NS | NS | 1,460 | 1,190 | |
| | 114 | Turner Creek | 0 | 0 | 0 | 0 | 0 | 0 | 200 | 100 | 500 | 600 | NS | NS | 20 | NS | NS | 1,420 | 940 | |
| | 115 | Millard Creek | 0 | 0 | 20 | 10 | 300 | 900 | | 8,500 | 5,700 | 4,500 | NS | NS | 1,400 | NS | NS | 21,330 | 12,780 | |
| | 116 | Duck River | 0 | 0 | 0 | 0 | 0 | 1,300 | 12,500 | 6,000 | 5,000 | 13,000 | NS | NS | 27,000 | NS | NS | 64,800 | 42,700 | |
| | 117 | Indian Creek | 0 | 0 | 500 | 0 | 1,000 | 4,300 | 20,000 | 7,700 | 10,300 | 5,800 | NS | NS | 1,100 | NS | NS | 50,700 | 23,340 | |
| | 120 | Donaldson Creek | 0 | 0 | 0 | 0 | 0 | 100 | 3,000 | 700 | 2,200 | 1,300 | NS | NS | 100 | NS | NS | 7,400 | 3,580 | |
| | 121 | Levshakoff Creek | 0 | 10 | 0 | 0 | 100 | 450 | 2,000 | 3,000 | 2,000 | 2,000 | NS | NS | 30 | NS | NS | 9,590 | 4,650 | |
| | 122 | No Name Creek | 0 | 0 | 0 | 0 | 0 | 0 | 500 | 500 | 500 | 700 | NS | NS | 0 | NS | NS | 2,200 | 1,180 | |
| | 123 | Gregorieff Creek | 0 | 0 | 0 | 0 | 0 | 400 | 1,800 | 1,500 | 1,500 | 1,100 | NS | NS | 170 | NS | NS | 6,470 | 3,340 | |
| | 127 | Naomoff River | 0 | 0 | 0 | 0 | 0 | 200 | 900 | 2,500 | 4,000 | 2,400 | NS | NS | 600 | NS | NS | 10,600 | 5,560 | |
| | 129 | Vlasoff Creek | 0 | 0 | 0 | 0 | NS | 200 | 1,200 | 1,100 | 1,000 | 1,200 | NS | NS | 300 | NS | NS | 5,000 | 2,720 | |
| | 152 | Twin Falls Creek | 0 | 0 | 0 | 0 | 300 | 50 | 700 | 1,800 | 5,100 | 4,500 | NS | NS | 250 | NS | NS | 12,700 | 7,160 | |
| | 153 | Stellar Creek | 0 | 0 | 300 | 250 | 0 | 1,000 | 4,300 | 9,000 | 6,500 | 4,900 | NS | NS | 450 | NS | NS | 26,700 | 13,000 | |
| | | Valdez Arm 221-50 | 0 | 10 | 820 | 260 | 1,700 | 8,950 | 49,600 | 43,500 | 46,100 | 43,300 | 0 | 0 | 31,580 | 0 | 0 | 225,820 | 124,750 | |
| | 131 | Gorge Creek - Port Valdez | 0 | 30 | 1,500 | 250 | 0 | 250 | 400 | 800 | 300 | 200 | NS | NS | 0 | NS | NS | 3,730 | 1,510 | |
| | 133 | Sawmill Creek | 0 | 0 | 0 | 100 | 100 | 400 | 600 | 900 | 600 | 400 | NS | NS | 0 | NS | NS | 3,100 | 1,300 | |
| | 137 | Lowe River | NS | NS | NS | NS | NS | NS | 3,000 | NS | NS | NS | NS | NS | NS | NS | NS | 3,000 | 3,000 | |
| | 143 | Siwash Creek | 0 | 0 | 0 | 0 | 700 | 1,800 | 1,600 | 2,000 | 700 | 0 | NS | NS | 0 | NS | NS | 6,800 | 3,140 | |
| | 145 | Crooked Creek | 0 | 0 | 0 | 0 | 20 | 200 | 600 | 1,500 | 0 | 0 | NS | NS | 0 | NS | NS | 2,320 | 1,500 | peak |
| | 148 | Mineral Flats | 0 | 0 | 0 | 0 | 0 | 30 | 1,300 | 2,800 | 0 | 0 | NS | NS | 0 | NS | NS | 4,130 | 2,800 | peak |
| | | Port Valdez 221-60 | 0 | 30 | 1,500 | 350 | 820 | 2,680 | 7,500 | 8,000 | 1,600 | 600 | 0 | 0 | 0 | 0 | 0 | 23,080 | 13,250 | |
| Eastern District TOTAL | | | 0 | 40 | 2,572 | 2,770 | 9,270 | 38,070 | 134,900 | 169,345 | 150,170 | 1 31,860 | 0 | 0 | 49,500 | 0 | 0 | 688,497 | 359,730 | |

-Continued-

| District | Stream Number | Name | Week Ending Date 6/24 | 7/01 | 7/08 | 7/15 | 7/22 | 7/29 | 8/05 | 8/12 | 8/19 | 8/26 | 9/02 | 9/09 | 9/16 | 9/23 | 9/30 | Total | Adjusted Total | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Northern | 204 | Heather Bay | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | 0 | 0 | |
| | 208 | Granite Cove | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | 0 | 0 | |
| | 209 | Useless Creek | 0 | 0 | 0 | 0 | 0 | 0 | NS | 20 | 50 | 200 | NS | NS | 0 | NS | NS | 270 | 200 | peak |
| | 210 | Elf Creek | 0 | 0 | 0 | 0 | 0 | 0 | NS | 0 | 20 | 100 | NS | NS | 0 | NS | NS | 120 | 100 | peak |
| | 213 | Bench Mark Creek | 0 | 0 | 0 | 0 | 0 | 150 | 600 | 400 | 200 | 200 | NS | NS | 0 | NS | NS | 1,550 | 710 | |
| | 214 | Long Creek | 0 | 0 | 0 | 0 | 0 | 0 | 1,100 | 2,200 | 4,100 | 2,400 | NS | NS | 0 | NS | NS | 9,800 | 4,580 | |
| | 216 | Vanishing Creek | 0 | 0 | 0 | 0 | 0 | 600 | 3,100 | 3,400 | 1,600 | 300 | NS | NS | 0 | NS | NS | 9,000 | 3,960 | |
| | 217 | Spring Creek | 0 | 0 | 0 | 0 | 0 | 50 | 6,400 | 4,000 | 3,500 | 2,100 | NS | NS | 0 | NS | NS | 16,050 | 6,450 | |
| | 218 | Billy's Creek | 0 | 0 | 0 | 0 | 0 | 0 | 1,300 | 0 | 0 | 0 | NS | NS | 0 | NS | NS | 1,300 | 1,300 | |
| | 221 | Eickelberg Creek | 0 | 0 | 0 | 0 | 200 | 0 | 2,000 | 1,500 | 600 | 300 | NS | NS | 0 | NS | NS | 4,600 | 2,000 | peak |
| | | Columbia/Long 222–10 | 0 | 0 | 0 | 0 | 200 | 800 | 14,500 | 11,520 | 10,070 | 5,600 | 0 | 0 | 0 | 0 | 0 | 42,690 | 19,300 | |
| | 224 | Backyard Creek | 0 | 0 | 0 | 0 | 0 | 350 | 2,000 | 8,000 | 3,400 | 3,000 | NS | NS | 10 | NS | NS | 16,760 | 8,120 | |
| | 227 | Granite Creek | 0 | 0 | 0 | 0 | 0 | 0 | 4,200 | 2,000 | 1,700 | 200 | NS | NS | NS | NS | NS | 8,100 | 5,760 | |
| | 229 | Cedar Creek | 0 | 0 | 200 | 0 | 50 | 700 | 4,500 | 6,000 | 4,000 | 1,500 | NS | NS | NS | NS | NS | 16,950 | 6,900 | |
| | 232 | Delta Creek | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | NS | NS | NS | NS | NS | 100 | 100 | |
| | 233 | Surplus Creek | 0 | 0 | 0 | 0 | 0 | 0 | 600 | 500 | 100 | 100 | NS | NS | NS | NS | NS | 1,300 | 880 | |
| | 234 | Wells River | 0 | 0 | 0 | 0 | 6,000 | 19,000 | 10,000 | 27,000 | 6,400 | 4,900 | NS | NS | NS | NS | NS | 73,300 | 32,920 | |
| | 257 | Complex Creek | NS | 0 | 0 | 0 | 0 | 0 | 10 | 5 | 0 | 20 | NS | NS | NS | NS | NS | 35 | 20 | |
| | 258 | Williams Creek | NS | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | NS | NS | NS | NS | NS | 0 | 0 | |
| | 259 | Jonah Creek | NS | 0 | 0 | 10 | 200 | 200 | 2,200 | 7,180 | 5,400 | 3,700 | NS | NS | NS | NS | NS | 18,890 | 7,560 | |
| | 263 | Waterfall Creek | NS | 0 | 0 | 0 | 0 | 0 | 200 | 0 | 0 | 50 | NS | NS | NS | NS | NS | 250 | 220 | |
| | 264 | Siwash River | NS | 0 | 0 | 0 | 0 | 0 | 700 | 100 | 1,500 | 3,400 | NS | NS | NS | NS | NS | 5,700 | 3,400 | peak |
| | 265 | Unakwik Creek | NS | 0 | 0 | 0 | 0 | 0 | 30 | 10 | 0 | 300 | NS | NS | NS | NS | NS | 340 | 300 | peak |
| | | Wells/Unakwik 222–20 | 0 | 0 | 200 | 10 | 6,250 | 20,250 | 24,440 | 50,795 | 22,500 | 17,270 | 0 | 0 | 10 | 0 | 0 | 141,725 | 66,180 | |
| | 273 | Schoppe Creek | NS | 0 | 0 | 0 | 20 | 200 | 200 | 0 | 0 | 300 | NS | NS | NS | NS | NS | 720 | 300 | |
| | 276 | Black Bear Creek | NS | 0 | 0 | 0 | 400 | 200 | 1,300 | 0 | 1,000 | 2,000 | NS | NS | NS | NS | NS | 4,900 | 2,200 | |
| | 277 | Dead Creek | NS | 0 | 0 | 0 | 0 | 10 | 200 | 0 | 0 | 20 | NS | NS | NS | NS | NS | 230 | 200 | peak |
| | 278 | Comeback Creek | NS | 0 | 0 | 0 | 0 | 0 | 50 | 100 | 100 | 300 | NS | NS | NS | NS | NS | 550 | 300 | peak |
| | 279 | Canyon Creek | NS | 0 | 0 | 0 | 100 | 500 | 2,200 | 0 | 100 | 2,300 | NS | NS | NS | NS | NS | 5,200 | 2,300 | peak |
| | 282 | Good Creek | NS | 0 | 0 | 0 | 0 | 50 | 0 | 0 | 0 | 0 | NS | NS | NS | NS | NS | 50 | 50 | |
| | 283 | Bad Creek | NS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NS | NS | NS | NS | NS | 0 | 0 | |
| | 289 | Derickson Creek | NS | 0 | 0 | 0 | 0 | 0 | 1,700 | 11,000 | 15,000 | 9,000 | NS | NS | NS | NS | NS | 36,700 | 15,700 | |
| | | Eaglek 222–30 | 0 | 0 | 0 | 0 | 520 | 960 | 5,650 | 11,100 | 16,200 | 13,920 | 0 | 0 | 0 | 0 | 0 | 48,350 | 21,050 | |
| | 242 | Cowpen Creek | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | 0 | 0 | |
| | | Unakwik District 222–50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Northern District TOTAL | | | 0 | 0 | 200 | 10 | 6,970 | 22,010 | 44,590 | 73,415 | 48,770 | 36,790 | 0 | 0 | 10 | 0 | 0 | 232,765 | 106,530 | |
| Coghill | 414 | Harrison Creek | NS | 0 | 0 | 0 | 0 | 0 | NS | 20 | 100 | NS | NS | NS | NS | NS | NS | 120 | 100 | peak |
| | 417 | Hobo Creek | NS | 0 | 0 | 0 | 0 | 0 | NS | 150 | 500 | NS | NS | NS | NS | NS | NS | 650 | 500 | peak |
| | 421 | Mill Creek | NS | 0 | 0 | NS | 100 | 50 | NS | 0 | 0 | NS | NS | NS | NS | NS | NS | 150 | 120 | |
| | 424 | Old Creek | NS | 0 | 0 | 0 | 0 | 0 | NS | 0 | 50 | NS | NS | NS | NS | NS | NS | 50 | 50 | |
| | 425 | Hummer Creek | NS | 0 | 0 | 0 | 0 | 0 | NS | 0 | 700 | NS | NS | NS | NS | NS | NS | 700 | 700 | |
| | 428 | Pirate Creek | NS | 0 | 0 | 0 | 0 | 0 | NS | | 100 | NS | NS | NS | NS | NS | NS | 100 | 100 | |
| | 430 | Meacham Creek | NS | 0 | 0 | 0 | 0 | 1,000 | NS | 3,000 | 4,000 | NS | NS | NS | NS | NS | NS | 8,000 | 4,900 | |
| | 432 | Swanson Creek | NS | 0 | 0 | 0 | 200 | 700 | NS | 13,000 | 8,000 | NS | NS | NS | NS | NS | NS | 21,900 | 13,000 | peak |
| | | W. Port Wells 223–10 | 0 | 0 | 0 | 0 | 300 | 1,750 | 0 | 16,170 | 13,450 | 0 | 0 | 0 | 0 | 0 | 0 | 31,670 | 19,470 | |
| | 303 | Triple Creek | NS | 0 | 0 | 0 | 0 | 0 | NS | 500 | 700 | 700 | NS | NS | NS | NS | NS | 1,900 | 1,060 | |
| | 307 | Village Creek | NS | 0 | 0 | 0 | 0 | 0 | NS | 600 | 450 | 500 | NS | NS | NS | NS | NS | 1,550 | 980 | |
| | | Esther Passage 223–20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,100 | 1,150 | 1,200 | 0 | 0 | 0 | 0 | 0 | 3,450 | 2,040 | |
| | 310 | Golden Lagoon | NS | 0 | 0 | 0 | 0 | 0 | NS | 0 | 0 | 0 | NS | NS | NS | NS | NS | 0 | 0 | |
| | 314 | Avery River | NS | 0 | 0 | 0 | 0 | | NS | 0 | 0 | 0 | NS | NS | NS | NS | NS | 0 | 0 | |
| | 322 | Coghill River – Below Weir | NS | 0 | 0 | 0 | 2,000 | 1,500 | NS | 16,000 | 24,000 | NS | NS | NS | NS | NS | NS | 43,500 | 24,000 | peak |
| | 3221 | Coghill River – Lake Count | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | 0 | 0 | |
| | | E. Port Wells 223–30 | 0 | 0 | 0 | 0 | 2,000 | 1,500 | 0 | 16,000 | 24,000 | 0 | 0 | 0 | 0 | 0 | 0 | 43,500 | 24,000 | |
| Coghill District TOTAL | | | 0 | 0 | 0 | 0 | 2,300 | 3,250 | 0 | 33,270 | 38,600 | 1,200 | 0 | 0 | 0 | 0 | 0 | 78,620 | 45,510 | |

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Appendix F.5. (Pg 3 of 6)

| District | Stream Number | Name | Week Ending Date 6/24 | 7/01 | 7/08 | 7/15 | 7/22 | 7/29 | 8/05 | 8/12 | 8/19 | 8/26 | 9/02 | 9/09 | 9/16 | 9/23 | 9/30 | Total | Adjusted Total | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Northwestern | 435 | Logging Camp Creek | NS | 0 | 0 | 0 | 0 | 0 | NS | 100 | 100 | NS | NS | NS | NS | NS | NS | 200 | 140 | |
| | 450 | Tebenkoff Creek | NS | 0 | 0 | 0 | 0 | 300 | NS | 600 | 300 | NS | NS | NS | NS | NS | NS | 1,200 | 930 | |
| | 451 | Blackstone Creek | NS | 0 | 0 | 0 | 0 | 300 | NS | 150 | 600 | NS | NS | NS | NS | NS | NS | 1,050 | 780 | |
| | 454 | Halferty Creek | NS | 0 | 0 | 0 | 0 | 100 | NS | 600 | 5,000 | NS | NS | NS | NS | NS | NS | 5,700 | 5,000 | peak |
| | 455 | Paulson Creek | NS | 0 | 0 | 300 | 1,000 | 1,200 | NS | 3,000 | 2,000 | NS | NS | NS | NS | NS | NS | 7,500 | 4,020 | |
| | 458 | Parks Creek | NS | 0 | 0 | 0 | 0 | | NS | 670 | 1,100 | NS | NS | NS | NS | NS | NS | 1,770 | 1,110 | |
| | 461 | Cochrane Creek | NS | 0 | 0 | 0 | 0 | 200 | NS | 1,500 | 800 | NS | NS | NS | NS | NS | NS | 2,500 | 1,520 | |
| | 469 | Wickett Creek | NS | 0 | 0 | 30 | 0 | 50 | NS | 2,000 | 1,100 | NS | NS | NS | NS | NS | NS | 3,180 | 2,000 | peak |
| | Passage/Cochrane | 224–10 | 0 | 0 | 0 | 330 | 1,000 | 2,150 | 0 | 8,620 | 11,000 | 0 | 0 | 0 | 0 | 0 | 0 | 23,100 | 15,500 | |
| | 471 | Narrows Creek | NS | 0 | 0 | 0 | 0 | 0 | NS | 200 | 200 | NS | NS | NS | NS | NS | NS | 400 | 280 | |
| | 476 | Shrode Creek | NS | 0 | 0 | 0 | 1,300 | 2,000 | NS | 30,000 | 26,000 | NS | NS | NS | NS | NS | NS | 59,300 | 30,900 | |
| | 479 | Culross Creek | NS | 0 | 0 | 20 | 0 | 200 | NS | 2,100 | 400 | NS | NS | NS | NS | NS | NS | 2,720 | 2,100 | peak |
| | Culross Pass | 224–30 | 0 | 0 | 0 | 20 | 1,300 | 2,200 | 0 | 32,300 | 26,600 | 0 | 0 | 0 | 0 | 0 | 0 | 62,420 | 33,280 | |
| | 480 | Mink Creek | NS | 0 | 0 | 1,000 | 400 | 1,000 | NS | 6,500 | 5,000 | NS | NS | NS | 0 | NS | NS | 13,900 | 7,660 | |
| | 484 | E. Finger Creek | NS | 0 | 0 | 112 | 100 | 200 | NS | 900 | 600 | NS | NS | NS | 0 | NS | NS | 1,912 | 1,050 | |
| | 485 | W. Finger Creek | NS | 0 | 0 | 1,000 | 500 | 1,000 | NS | 3,700 | 3,500 | NS | NS | NS | 0 | NS | NS | 9,700 | 5,420 | |
| | 493 | Most Creek | NS | 0 | 0 | 0 | 10 | 0 | NS | 0 | 350 | NS | NS | NS | 0 | NS | NS | 360 | 350 | peak |
| | 495 | Chimevisky Lagoon | NS | 0 | 0 | 700 | 0 | 100 | NS | 500 | 500 | NS | NS | NS | 5 | NS | NS | 1,805 | 1,560 | |
| | 498 | McClure Creek | NS | 0 | 0 | 0 | 0 | 0 | NS | 3,000 | 1,800 | NS | NS | NS | 0 | NS | NS | 4,800 | 3,720 | |
| | Nellie Juan | 224–40 | 0 | 0 | 0 | 2,812 | 1,010 | 2,300 | 0 | 14,600 | 11,750 | 0 | 0 | 0 | 5 | 0 | 0 | 32,477 | 19,760 | |
| Northwestern District TOTAL | | | 0 | 0 | 0 | 3,162 | 3,310 | 6,650 | 0 | 55,520 | 49,350 | 0 | 0 | 0 | 5 | 0 | 0 | 117,997 | 68,540 | |
| Eshamy | 506 | Loomis Creek | NS | NS | NS | 0 | 0 | 0 | 0 | 300 | 1,700 | 900 | NS | 3,000 | 0 | NS | NS | 5,900 | 3,320 | |
| | 507 | Gunboat Creek | NS | NS | NS | 0 | 0 | 0 | 100 | 4,000 | 4,000 | 3,200 | NS | 2,500 | 0 | NS | NS | 13,800 | 6,720 | |
| | 508 | North Shore – Eshamy Lagoon | NS | NS | NS | NS | 0 | 0 | 400 | 300 | 500 | 1,200 | NS | 5,000 | 50 | NS | NS | 7,450 | 5,000 | peak |
| | 510 | Elishansky Creek | NS | NS | NS | NS | 50 | 0 | 900 | 3,000 | 1,200 | 900 | NS | 3,000 | 4 | NS | NS | 9,054 | 4,430 | |
| | 511 | Eshamy – Below Weir | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | 0 | NS | NS | 0 | 0 | |
| | 5111 | Eshamy River – Weir | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | 0 | 0 | |
| | Eshamy | 225–30 | 0 | 0 | 0 | 0 | 50 | 0 | 1,400 | 7,600 | 7,400 | 6,200 | 0 | 13,500 | 54 | 0 | 0 | 36,204 | 19,470 | |
| Eshamy District TOTAL | | | 0 | 0 | 0 | 0 | 50 | 0 | 1,400 | 7,600 | 7,400 | 6,200 | 0 | 13,500 | 54 | 0 | 0 | 36,204 | 19,470 | |

–Continued–

Appendix F.5. (Pg 4 of 6)

| District | Stream Number | Name | Week Ending Date 6/24 | 7/01 | 7/08 | 7/15 | 7/22 | 7/29 | 8/05 | 8/12 | 8/19 | 8/26 | 9/02 | 9/09 | 9/16 | 9/23 | 9/30 | Total | Adjusted Total | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Southwestern | 601 | Paddy Creek | NS | NS | 0 | 0 | 0 | 600 | 1,600 | 1,300 | 500 | 700 | NS | 1,200 | 15 | NS | NS | 5,915 | 3,110 | |
| | 602 | Nacktan Creek | NS | NS | 0 | 0 | 0 | 300 | 300 | 500 | 100 | 600 | NS | 1,100 | 20 | NS | NS | 2,920 | 1,690 | |
| | 603 | Ewan Creek | NS | NS | 0 | 0 | 0 | 200 | 1,800 | 5,000 | 4,000 | NS | NS | 700 | 0 | NS | NS | 11,700 | 6,680 | |
| | 604 | Erb Creek | NS | NS | 0 | NS | 600 | 600 | 2,500 | 7,000 | 2,000 | NS | NS | 700 | 0 | NS | NS | 13,400 | 7,000 | peak |
| | 608 | Jackpot River | NS | NS | 0 | NS | 0 | 0 | 3,000 | 34,000 | 12,000 | NS | NS | 9,000 | 0 | NS | NS | 58,000 | 34,000 | peak |
| | 610 | Kompkoff River | NS | NS | 0 | NS | 0 | 75 | 800 | 2,000 | 800 | NS | NS | 100 | 0 | NS | NS | 3,775 | 2,000 | peak |
| | 611 | Jackpot Bay – West Arm | NS | NS | 0 | NS | 0 | 200 | 200 | 50 | 50 | NS | NS | 50 | 0 | NS | NS | 550 | 380 | |
| | 612 | Jackpot Bay – West Arm | NS | NS | 0 | NS | 120 | 100 | 700 | 300 | 30 | NS | NS | 200 | 0 | NS | NS | 1,450 | 740 | |
| | 613 | Jackson Creek | NS | NS | 0 | 500 | 3,000 | 10,000 | 13,000 | 28,000 | 7,000 | NS | NS | 900 | 0 | NS | NS | 62,400 | 28,420 | |
| | 621 | Totemoff Creek | NS | NS | 0 | NS | 0 | 100 | 1,500 | 4,500 | 3,800 | NS | NS | 1,800 | 10 | NS | NS | 11,710 | 6,980 | |
| | 623 | Brizgaloff Creek | NS | NS | 0 | 0 | 0 | 0 | 2,000 | 1,000 | 500 | NS | NS | 900 | 0 | NS | NS | 4,400 | 3,520 | |
| | 630 | Bainbridge Creek | NS | NS | 0 | NS | 2,000 | 800 | 4,400 | 14,000 | 11,020 | NS | NS | 3,900 | 5 | NS | NS | 36,125 | 21,620 | |
| | 632 | Claw Creek | NS | NS | 0 | NS | 200 | 200 | 700 | 700 | 900 | NS | NS | 800 | 0 | NS | NS | 3,500 | 2,200 | |
| | 633 | Pablo Creek | NS | NS | 0 | NS | 1,000 | 600 | 1,134 | 4,500 | 2,000 | NS | NS | 1,200 | 2 | NS | NS | 10,436 | 6,050 | |
| | 634 | Whale Bay – B. Head – S. Arm | NS | NS | 0 | NS | 0 | 0 | 10 | 200 | 150 | NS | NS | 800 | 0 | NS | NS | 1,160 | 850 | |
| | 636 | Whale Creek | NS | NS | 0 | NS | 400 | 210 | 600 | 900 | 500 | NS | NS | 1,300 | 5 | NS | NS | 3,915 | 2,530 | |
| | Chenega | 226–20 | 0 | 0 | 0 | 500 | 7,320 | 13,985 | 34,244 | 103,950 | 45,350 | 1,300 | 0 | 24,650 | 57 | 0 | 0 | 231,356 | 127,770 | |
| | 682 | Snug Harbor | NS | NS | 0 | NS | 0 | 0 | 200 | 3,500 | 3,000 | NS | NS | 4,000 | 0 | NS | NS | 10,700 | 7,200 | |
| | Knight Island | 226–30 | 0 | 0 | 0 | 0 | 0 | 0 | 200 | 3,500 | 3,000 | 0 | 0 | 4,000 | 0 | 0 | 0 | 10,700 | 7,200 | |
| | 655 | Johnson Creek | NS | NS | 0 | 0 | 100 | 0 | 900 | 1,000 | 400 | NS | NS | 8,000 | 0 | NS | NS | 10,400 | 8,000 | peak |
| | 656 | Halverson Creek | NS | NS | 0 | 0 | 200 | 200 | 1,200 | 800 | 700 | NS | NS | 7,000 | 35 | NS | NS | 10,135 | 7,250 | |
| | 665 | Bjorne Creek | NS | NS | 0 | NS | 0 | 0 | 0 | 100 | 10 | NS | NS | 1,700 | 60 | NS | NS | 1,870 | 1,700 | peak |
| | 666 | O'Brien Creek | NS | NS | 0 | NS | 0 | 0 | 0 | 200 | 50 | NS | NS | 3,700 | 70 | NS | NS | 4,020 | 3,700 | peak |
| | 670 | Montgomery Creek | NS | NS | NS | NS | 0 | 0 | 0 | 140 | 0 | NS | NS | 1,100 | 120 | NS | NS | 1,360 | 1,100 | peak |
| | 672 | Latouche Island – S. Side | NS | NS | 0 | NS | 0 | 0 | 0 | 0 | 0 | NS | NS | 500 | 0 | NS | NS | 500 | 500 | |
| | 673 | Falls Creek | NS | NS | 0 | NS | 0 | 0 | 174 | 1,500 | 1,000 | NS | NS | 4,000 | 15 | NS | NS | 6,689 | 4,780 | |
| | 676 | Horseshoe Creek | NS | NS | 0 | NS | 0 | 0 | 100 | 2,300 | 2,000 | NS | NS | 2,500 | 0 | NS | NS | 6,900 | 4,620 | |
| | 677 | Hayden Creek | NS | NS | 0 | NS | 0 | 0 | 0 | 57 | 150 | NS | NS | 2,200 | 0 | NS | NS | 2,407 | 2,200 | peak |
| | Bainbridge/Latouche | 226–40 | 0 | 0 | 0 | 0 | 300 | 200 | 2,374 | 6,097 | 4,310 | 0 | 0 | 30,700 | 300 | 0 | 0 | 44,281 | 33,850 | |
| | 653 | Hogg Creek | NS | NS | 0 | NS | NS | 400 | 5,400 | 4,300 | 2,500 | NS | NS | 1,400 | 30 | NS | NS | 14,030 | 7,410 | |
| | Port Bainbridge | 226–50 | 0 | 0 | 0 | 0 | 0 | 400 | 5,400 | 4,300 | 2,500 | 0 | 0 | 1,400 | 30 | 0 | 0 | 14,030 | 7,410 | |
| Southwestern District TOTAL | | | 0 | 0 | 0 | 500 | 7,620 | 14,585 | 42,218 | 117,847 | 55,160 | 1,300 | 0 | 60,750 | 387 | 0 | 0 | 390,367 | 176,230 | |

–Continued–

Appendix F.5. (Pg 5 of 6)

| District | Stream Number | Name | Week Ending Date 6/24 | 7/01 | 7/08 | 7/15 | 7/22 | 7/29 | 8/05 | 8/12 | 8/19 | 8/26 | 9/02 | 9/09 | 9/16 | 9/23 | 9/30 | Total | Adjusted Total | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Montague | 702 | Point Creek | NS | NS | NS | NS | 0 | 0 | 100 | | 1,820 | NS | NS | 600 | NS | NS | NS | 2,520 | 2,450 | |
| | 703 | Clam Beach Creek | NS | NS | NS | NS | 0 | 0 | 100 | | 550 | NS | NS | 60 | NS | NS | NS | 710 | 750 | |
| | 707 | MacLeod Creek | NS | NS | NS | NS | 0 | 300 | 2,900 | | 5,600 | NS | NS | 4,100 | NS | NS | NS | 12,900 | 10,920 | |
| | 710 | Hanning Creek | NS | NS | NS | NS | 0 | 650 | 4,500 | 8,300 | 4,300 | NS | NS | 2,000 | NS | NS | NS | 19,750 | 10,810 | |
| | 711 | Quadra Creek | NS | NS | NS | NS | 200 | 1,900 | 7,400 | | 4,700 | NS | NS | 2,300 | NS | NS | NS | 16,500 | 11,940 | |
| | 717 | Montague Island – West Shore | NS | NS | NS | NS | 0 | 0 | 3,000 | 4,900 | 2,400 | NS | NS | 1,500 | NS | NS | NS | 11,800 | 8,080 | |
| | 718 | Montague Island – West Shore | NS | NS | NS | NS | 0 | 0 | 2,500 | 2,300 | 2,400 | NS | NS | 1,600 | NS | NS | NS | 8,800 | 6,620 | |
| | 719 | Montague Island – West Shore | NS | NS | NS | NS | 0 | 600 | 3,500 | 4,300 | 1,100 | NS | NS | 1,400 | NS | NS | NS | 10,900 | 5,720 | |
| | 722 | Montague Is. – Glacier Str. | NS | NS | NS | NS | 0 | 0 | 400 | 200 | 60 | NS | NS | | NS | NS | NS | 660 | 500 | |
| | 724 | Montague Is. – Glacier Str. | NS | NS | NS | NS | 0 | 0 | 0 | 0 | NS | NS | NS | 400 | NS | NS | NS | 400 | 400 | |
| | 725 | Montague Island – West Shore | NS | NS | NS | NS | 0 | 0 | | NS | 3,700 | NS | NS | 500 | NS | NS | NS | 4,200 | 7,800 | |
| | 726 | Montague Creek | NS | NS | NS | NS | 0 | 0 | 2,000 | 280 | 800 | NS | NS | | NS | NS | NS | 3,080 | 2,430 | |
| | | S. Montague 227–10 | 0 | 0 | 0 | 0 | 200 | 3,450 | 26,400 | 20,280 | 27,430 | 0 | 0 | 14,460 | 0 | 0 | 0 | 92,220 | 68,420 | |
| | 738 | Russell Creek | NS | NS | NS | NS | 0 | 300 | 2,600 | 1,310 | 2,140 | NS | NS | 1,100 | 30 | NS | NS | 7,480 | 4,470 | |
| | 739 | Swamp Creek | NS | NS | NS | NS | 50 | 2,500 | 8,000 | 13,710 | 9,800 | NS | NS | 5,300 | 450 | NS | NS | 39,810 | 21,990 | |
| | 740 | Kelez Creek | NS | NS | NS | NS | 0 | 0 | 2,400 | 2,400 | 1,300 | NS | NS | 3,200 | 0 | NS | NS | 9,300 | 6,960 | |
| | 741 | Chalmers River | NS | NS | NS | NS | 800 | 3,000 | 5,100 | 8,820 | 6,700 | NS | NS | 1,400 | 55 | NS | NS | 25,875 | 14,070 | |
| | 744 | Wilby Creek | NS | NS | NS | NS | 0 | 50 | 4,700 | 1,400 | 800 | NS | NS | 1,000 | 0 | NS | NS | 7,950 | 4,700 | peak |
| | 745 | Wild Creek | NS | NS | NS | NS | 100 | 300 | 1,100 | 4,710 | 2,500 | NS | NS | 900 | 10 | NS | NS | 9,620 | 5,270 | |
| | 746 | Schuman Creek | NS | NS | NS | NS | 0 | 100 | 700 | 700 | NS | NS | NS | 800 | 0 | NS | NS | 2,300 | 1,880 | |
| | 747 | Cabin Creek | NS | NS | NS | NS | 200 | 1,200 | 10,700 | 21,750 | 4,700 | NS | NS | 8,400 | 200 | NS | NS | 47,150 | 24,220 | |
| | 748 | Gilmour Creek | NS | NS | NS | NS | 0 | 0 | 500 | 30 | 400 | NS | NS | 700 | 0 | NS | NS | 1,630 | 1,390 | |
| | 749 | Shad Creek | NS | NS | NS | NS | 0 | 200 | 1,600 | 3,900 | 2,100 | NS | NS | 2,000 | 0 | NS | NS | 9,800 | 5,680 | |
| | 752 | Stockdale Creek | NS | NS | NS | NS | 0 | 0 | 1,300 | 3,000 | 2,100 | 1,600 | NS | 1,800 | 0 | NS | NS | 9,800 | 5,380 | |
| | 753 | Stockdale Bay | NS | NS | NS | NS | 0 | 0 | 1,100 | 1,200 | 200 | NS | NS | 600 | 0 | NS | NS | 3,100 | 2,220 | |
| | 754 | Dry Creek | NS | NS | NS | NS | 0 | 0 | 0 | 310 | 100 | NS | NS | 300 | 0 | NS | NS | 710 | 630 | |
| | 758 | Rocky Bay – Head | NS | NS | NS | NS | 0 | 0 | 50 | 300 | 700 | NS | NS | 1,500 | 0 | NS | NS | 2,550 | 1,930 | |
| | 759 | Rocky Creek | NS | NS | NS | NS | 0 | 0 | 100 | 600 | 900 | NS | NS | 1,300 | | NS | NS | 2,900 | 2,100 | |
| | 766 | Carr Creek | NS | NS | NS | NS | 0 | 0 | 0 | 0 | 0 | NS | NS | 20 | NS | NS | NS | 20 | 20 | |
| | 770 | Udall Creek | NS | NS | NS | NS | 0 | 300 | 2,600 | 4,100 | 1,000 | NS | NS | 250 | NS | NS | NS | 8,250 | 4,100 | peak |
| | 771 | McKernan Creek | NS | NS | NS | NS | 0 | 0 | 100 | 600 | 400 | NS | NS | 200 | NS | NS | NS | 1,300 | 820 | |
| | 774 | Rosswog Creek | NS | NS | NS | NS | 0 | 70 | 700 | 1,500 | 1,300 | NS | NS | 600 | NS | NS | NS | 4,170 | 2,470 | |
| | 775 | Pautze Creek | NS | NS | NS | NS | 0 | 0 | 900 | 2,100 | 300 | NS | NS | 900 | NS | NS | NS | 4,200 | 2,700 | |
| | 788 | Green Creek | NS | NS | NS | NS | 0 | 0 | 100 | 0 | 0 | NS | NS | 300 | 5 | NS | NS | 405 | 340 | |
| | | N. Montague 227–20 | 0 | 0 | 0 | 0 | 1,150 | 8,020 | 44,350 | 72,440 | 37,440 | 1,600 | 0 | 32,570 | 750 | 0 | 0 | 198,320 | 113,340 | |
| Montague District TOTAL | | | 0 | 0 | 0 | 0 | 1,350 | 11,470 | 70,750 | 92,720 | 64,870 | 1,600 | 0 | 47,030 | 750 | 0 | 0 | 290,540 | 181,760 | |

–Continued–

Appendix F.5. (Pg 6 of 6)

| District | Stream Number | Name | Week Ending Date 6/24 | 7/01 | 7/08 | 7/15 | 7/22 | 7/29 | 8/05 | 8/12 | 8/19 | 8/26 | 9/02 | 9/09 | 9/16 | 9/23 | 9/30 | Total | Adjusted Total | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Southeastern | 863 | Orca Creek | NS | NS | 0 | 0 | 300 | 700 | NS | 500 | 300 | NS | NS | NS | NS | NS | NS | 1,800 | 1,140 | |
| | | S. Hawkins 228–10 | 0 | 0 | 0 | 0 | 300 | 700 | 0 | 500 | 300 | 0 | 0 | 0 | 0 | 0 | 0 | 1,800 | 1,140 | |
| | 833 | Bates Creek | NS | NS | 0 | 0 | 100 | 0 | NS | 60 | 160 | NS | NS | NS | NS | NS | NS | 320 | 200 | |
| | 834 | Hardy Creek | NS | NS | 0 | 1,200 | 5,700 | 15,000 | NS | 38,000 | 17,700 | NS | NS | NS | NS | NS | NS | 77,600 | 42,360 | |
| | 835 | Scott Creek | NS | NS | 0 | 0 | 2,100 | 6,900 | NS | 17,600 | 12,700 | NS | NS | NS | NS | NS | NS | 39,300 | 21,880 | |
| | 836 | Dan's Creek | NS | NS | 0 | 0 | 100 | 1,600 | NS | 6,300 | 3,700 | NS | NS | NS | NS | NS | NS | 11,700 | 6,320 | |
| | 837 | Widgeon Creek | NS | NS | 0 | 0 | 0 | 400 | NS | 700 | 1,300 | NS | NS | NS | NS | NS | NS | 2,400 | 1,540 | |
| | 839 | Goose Creek | NS | NS | 0 | 0 | 300 | 900 | NS | 4,000 | 1,900 | NS | NS | NS | NS | NS | NS | 7,100 | 4,000 | |
| | | Cutoff 228–20 | 0 | 0 | 0 | 1,200 | 8,300 | 24,800 | 0 | 66,660 | 37,460 | 0 | 0 | 0 | 0 | 0 | 0 | 138,420 | 76,300 | |
| | 844 | Makaka Creek | NS | NS | 0 | 0 | 500 | 600 | NS | 5,900 | 5,200 | NS | NS | NS | NS | NS | NS | 12,200 | 6,480 | |
| | 847 | Hawkins Creek | NS | NS | 0 | 0 | 0 | 3,500 | NS | 11,700 | 6,400 | NS | NS | NS | NS | NS | NS | 21,600 | 14,830 | |
| | 849 | Rollins Creek | NS | NS | 0 | 0 | 0 | 1,500 | NS | 2,500 | 2,500 | NS | NS | NS | NS | NS | NS | 6,500 | 4,750 | |
| | 850 | Canoe Creek | NS | NS | 0 | 0 | 0 | 1,500 | NS | 4,000 | 4,200 | NS | NS | NS | NS | NS | NS | 9,700 | 6,330 | |
| | 851 | Zillesenoff Creek | NS | NS | 0 | 0 | 100 | 100 | NS | 8,000 | 2,400 | NS | NS | NS | NS | NS | NS | 10,600 | 8,000 | peak |
| | 856 | W. Lagoon Creek | NS | NS | 0 | 75 | 0 | 1,100 | NS | 1,100 | 1,800 | NS | NS | NS | NS | NS | NS | 4,075 | 2,110 | |
| | 857 | E. Lagoon Creek | NS | NS | 0 | 0 | 1,200 | 2,000 | NS | 0 | 300 | NS | NS | NS | NS | NS | NS | 3,500 | 2,520 | |
| | 858 | N. Lagoon Creek | NS | NS | 0 | 0 | 0 | 0 | NS | 100 | 0 | NS | NS | NS | NS | NS | NS | 100 | 100 | |
| | 861 | Bernard Creek | NS | NS | 0 | 0 | 0 | 2,700 | NS | 9,000 | 6,600 | NS | NS | NS | NS | NS | NS | 18,300 | 12,090 | |
| | 862 | Clamdiggers Creek | NS | NS | 0 | 0 | 0 | 400 | NS | 700 | 100 | NS | NS | NS | NS | NS | NS | 1,200 | 1,060 | |
| | | N. Hawkins 228–30 | 0 | 0 | 0 | 75 | 1,800 | 13,400 | 0 | 43,000 | 29,500 | 0 | 0 | 0 | 0 | 0 | 0 | 87,775 | 58,270 | |
| | 827 | Captain Creek | NS | NS | 0 | 0 | 0 | 300 | NS | 4,800 | 2,800 | NS | NS | NS | NS | NS | NS | 7,900 | 4,800 | peak |
| | 828 | Cook Creek | NS | NS | 0 | 0 | 200 | 6,800 | NS | 22,400 | 16,000 | NS | NS | NS | NS | NS | NS | 45,400 | 24,120 | |
| | 829 | King Creek | NS | NS | 0 | 0 | 0 | 0 | NS | 500 | 800 | NS | NS | NS | NS | NS | NS | 1,300 | 820 | |
| | 831 | Double Creek | NS | NS | 0 | 0 | 0 | 4,100 | NS | 16,100 | 7,300 | NS | NS | NS | NS | NS | NS | 27,500 | 18,730 | |
| | | Double Bay 228–40 | 0 | 0 | 0 | 0 | 200 | 11,200 | 0 | 43,800 | 26,900 | 0 | 0 | 0 | 0 | 0 | 0 | 82,100 | 48,470 | |
| | 817 | Deer Creek | NS | NS | 0 | 200 | 300 | 4,700 | NS | 9,500 | 4,400 | NS | NS | NS | NS | NS | NS | 19,100 | 10,600 | |
| | 818 | Juania Creek | NS | NS | 0 | 100 | 100 | 3,000 | NS | 11,000 | 6,800 | NS | NS | NS | NS | NS | NS | 21,000 | 11,260 | |
| | 821 | Brown Bear Creek | NS | NS | 10 | 100 | 2,200 | 7,200 | NS | 10,000 | 5,200 | NS | NS | NS | NS | NS | NS | 24,710 | 13,330 | |
| | | Johnstone 228–50 | 0 | 0 | 10 | 400 | 2,600 | 14,900 | 0 | 30,500 | 16,400 | 0 | 0 | 0 | 0 | 0 | 0 | 64,810 | 35,190 | |
| | 805 | Port Etches – South Shore | NS | NS | 0 | 0 | 0 | 500 | NS | 70 | 350 | NS | NS | NS | NS | NS | NS | 920 | 930 | |
| | 806 | Dog Salmon Creek | NS | NS | 0 | 0 | 0 | 250 | NS | 2,600 | 3,200 | NS | NS | NS | NS | NS | NS | 6,050 | 3,210 | |
| | 807 | Beaver Creek | NS | NS | 0 | 0 | 0 | 200 | NS | 700 | 700 | NS | NS | NS | NS | NS | NS | 1,600 | 1,000 | |
| | 810 | Garden Creek | NS | NS | 0 | 0 | 250 | 3,230 | NS | 4,500 | 4,400 | NS | NS | NS | NS | NS | NS | 12,380 | 6,650 | |
| | 811 | Etches Creek | NS | NS | 0 | 0 | 0 | 50 | NS | 700 | 900 | NS | NS | NS | NS | NS | NS | 1,650 | 900 | peak |
| | 812 | Nuchek Creek | NS | NS | 0 | 0 | 7,600 | 15,000 | NS | 36,000 | 27,200 | NS | NS | NS | NS | NS | NS | 85,800 | 49,080 | |
| | 815 | Constantine Creek | NS | NS | 100 | 300 | 2,000 | 10,000 | NS | 30,000 | 22,100 | NS | NS | NS | NS | NS | NS | 64,500 | 33,860 | |
| | | Etches 228–60 | 0 | 0 | 100 | 300 | 9,850 | 29,230 | 0 | 74,570 | 58,850 | 0 | 0 | 0 | 0 | 0 | 0 | 172,900 | 95,630 | |
| Southeastern District TOTAL | | | 0 | 0 | 110 | 1,975 | 23,050 | 94,230 | 0 | 259,030 | 169,410 | 0 | 0 | 0 | 0 | 0 | 0 | 547,805 | 315,000 | |
| TOTAL OF 8 DISTRICTS | | | 0 | 40 | 2,882 | 8,417 | 53,920 | 190,265 | 293,858 | 808,747 | 583,730 | 178,950 | 0 | 121,280 | 50,706 | 0 | 0 | 2,292,795 | 1,272,770 | |

NS = No Survey.

Appendix F.6. Weekly aerial estimates of the escapement of live chum salmon to selected streams in Prince William Sound, 1989.

| District | Stream Number | Name | Week Ending Date 6/24 | 7/01 | 7/08 | 7/15 | 7/22 | 7/29 | 8/05 | 8/12 | 8/19 | 8/26 | 9/02 | 9/09 | 9/16 | 9/23 | 9/30 | Total | Adjusted Total | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Eastern** | 2 | Hartney Creek | NS | NS | NS | 120 | 350 | 0 | 1,100 | 800 | 200 | NS | NS | NS | NS | NS | NS | 2,570 | 1,100 | |
| | 5 | Eccles Creek | NS | NS | NS | 0 | 0 | 0 | 0 | 0 | 0 | NS | NS | NS | NS | NS | NS | 0 | 0 | |
| | 8 | Fleming Creek | 0 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | 0 | 0 | |
| | 11 | Humpy Creek | 0 | 0 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | NS | NS | 0 | NS | NS | 20 | 20 | |
| | | Orca Inlet 221–10 | 0 | 0 | 0 | 140 | 350 | 0 | 1,100 | 800 | 200 | 0 | 0 | 0 | 0 | 0 | 0 | 2,590 | 1,120 | |
| | 20 | Spring Creek | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NS | NS | 0 | NS | NS | 0 | 0 | |
| | 21 | Rogue Creek | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NS | NS | 0 | NS | NS | 0 | 0 | |
| | 23 | Chase Creek | 0 | 50 | 500 | 1,400 | 3,700 | 1,800 | 1,700 | 4,600 | 2,500 | 1,400 | NS | NS | 0 | NS | NS | 17,650 | 7,090 | |
| | 35 | Koppen Creek | 0 | 10 | 2,000 | 3,800 | 5,500 | 2,700 | 1,500 | 1,000 | 0 | 0 | NS | NS | 50 | NS | NS | 16,560 | 6,650 | |
| | 36 | Sheep River | 0 | 0 | 150 | 600 | 2,500 | 1,800 | 5,000 | 2,000 | 0 | 0 | NS | NS | 100 | NS | NS | 12,150 | 5,000 | peak |
| | 37 | Allen Creek | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NS | NS | 0 | NS | NS | 0 | 0 | |
| | | Simpson/Sheep 221–20 | 0 | 60 | 2,650 | 5,800 | 11,700 | 6,300 | 8,200 | 7,600 | 2,500 | 1,400 | 0 | 0 | 150 | 0 | 0 | 46,360 | 18,740 | |
| | 41 | Pass Creek | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NS | NS | 0 | NS | NS | 0 | 0 | |
| | 46 | Comfort Creek | 0 | 0 | 0 | 10 | 0 | 350 | 2,000 | 0 | 0 | 0 | NS | NS | 0 | NS | NS | 2,360 | 2,000 | peak |
| | 48 | Beartrap River | 300 | 1,300 | 9,000 | 11,000 | 16,000 | 8,000 | 9,000 | 2,000 | 0 | 1,000 | NS | NS | 0 | NS | NS | 57,600 | 23,220 | |
| | 49 | Cataract Creek | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NS | NS | 0 | NS | NS | 0 | 0 | |
| | 51 | Olsen Creek | 250 | 800 | 7,000 | 5,100 | 7,600 | 3,400 | 1,000 | 0 | 0 | 0 | NS | NS | 0 | NS | NS | 25,150 | 10,210 | |
| | 52 | Control Creek | 0 | 200 | 300 | 800 | 400 | 200 | 0 | 20 | 0 | 0 | NS | NS | 0 | NS | NS | 1,920 | 890 | |
| | 54 | Carlsen Creek | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NS | NS | 0 | NS | NS | 0 | 0 | |
| | 56 | St. Matthews Creek | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | NS | NS | 0 | NS | NS | 100 | 100 | |
| | | Gravina 221–30 | 550 | 2,300 | 16,300 | 16,910 | 24,000 | 12,050 | 12,000 | 2,020 | 0 | 1,000 | 0 | 0 | 0 | 0 | 0 | 87,130 | 36,420 | |
| | 76 | Irish Creek | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NS | NS | 0 | NS | NS | 0 | 0 | |
| | 80 | Whalen Creek | 0 | 0 | 150 | 800 | 600 | 900 | 0 | 0 | 0 | 0 | NS | NS | 0 | NS | NS | 2,450 | 1,070 | |
| | 83 | Keta Creek | 0 | 0 | 0 | 0 | 0 | 50 | 0 | 100 | 1,100 | 1,500 | NS | NS | 400 | NS | NS | 3,150 | 2,050 | |
| | 87 | Sunny River | 0 | 0 | 0 | 0 | 200 | 200 | 0 | 700 | 1,500 | 9,600 | NS | NS | 600 | NS | NS | 12,800 | 9,600 | peak |
| | 88 | Short Creek | 0 | 0 | 0 | 0 | 0 | 50 | 0 | 21 | 0 | 200 | NS | NS | 0 | NS | NS | 271 | 200 | peak |
| | 89 | Fish Creek | 0 | 10 | 450 | 1,800 | 3,200 | 9,000 | 500 | 500 | 500 | 0 | NS | NS | 0 | NS | NS | 15,960 | 9,000 | peak |
| | 92 | Shale Creek | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NS | NS | 0 | NS | NS | 0 | 0 | |
| | 93 | Kirkwood Creek | 0 | 0 | 0 | 400 | 200 | 200 | 0 | 0 | 0 | 10 | NS | NS | 0 | NS | NS | 810 | 560 | |
| | 94 | Rock Creek | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NS | NS | 0 | NS | NS | 0 | 0 | |
| | 99 | Lagoon Creek | 0 | 0 | 100 | 100 | 300 | 800 | 0 | 200 | 200 | 400 | NS | NS | 200 | NS | NS | 2,300 | 1,220 | |
| | | Fidalgo 221–40 | 0 | 10 | 700 | 3,100 | 4,500 | 11,200 | 500 | 1,521 | 3,300 | 11,710 | 0 | 0 | 1,200 | 0 | 0 | 37,741 | 23,700 | |
| | 114 | Turner Creek | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NS | NS | 0 | NS | NS | 0 | 0 | |
| | 115 | Millard Creek | 0 | 0 | 0 | 90 | 300 | 100 | | 0 | 0 | 0 | NS | NS | 0 | NS | NS | 490 | 300 | peak |
| | 116 | Duck River | 0 | 0 | 30 | 300 | 1,400 | 1,300 | 1,000 | 1,000 | 3,000 | 1,100 | NS | NS | 0 | NS | NS | 9,130 | 3,670 | |
| | 117 | Indian Creek | 0 | 300 | 4,500 | 3,500 | 3,700 | 4,300 | 4,000 | 500 | 0 | 0 | NS | NS | 0 | NS | NS | 20,800 | 8,500 | |
| | 120 | Donaldson Creek | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NS | NS | 0 | NS | NS | 0 | 0 | |
| | 121 | Levshakoff Creek | 0 | 0 | 100 | 0 | 300 | 150 | 0 | 50 | 0 | 0 | NS | NS | 0 | NS | NS | 600 | 300 | |
| | 122 | No Name Creek | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NS | NS | 0 | NS | NS | 0 | 0 | |
| | 123 | Gregorieff Creek | 0 | 80 | 500 | 200 | 300 | 400 | 0 | 0 | 0 | 0 | NS | NS | 0 | NS | NS | 1,480 | 640 | |
| | 127 | Naomoff River | 0 | 0 | 0 | 500 | 600 | 900 | 0 | 0 | 1,100 | 0 | NS | NS | 0 | NS | NS | 3,100 | 1,540 | |
| | 129 | Vlasoff Creek | 0 | 0 | 0 | 200 | NS | 500 | 200 | 0 | 400 | 0 | NS | NS | 300 | NS | NS | 1,600 | 1,080 | |
| | 152 | Twin Falls Creek | 0 | 0 | 0 | 150 | 900 | 450 | 0 | 0 | 0 | 0 | NS | NS | 150 | NS | NS | 1,650 | 900 | peak |
| | 153 | Stellar Creek | 150 | 100 | 4,500 | 2,700 | 2,300 | 2,000 | 400 | 500 | 0 | 0 | NS | NS | 0 | NS | NS | 12,650 | 5,150 | |
| | | Valdez Arm 221–50 | 150 | 480 | 9,630 | 7,640 | 9,800 | 10,100 | 5,600 | 2,050 | 4,500 | 1,100 | 0 | 0 | 450 | 0 | 0 | 51,500 | 22,080 | |
| | 131 | Gorge Creek – Port Valdez | 0 | 30 | 500 | 250 | 900 | 250 | 0 | 0 | 0 | 0 | NS | NS | 0 | NS | NS | 1,930 | 900 | peak |
| | 133 | Sawmill Creek | 0 | 50 | 600 | 1,300 | 700 | 700 | 0 | 0 | 0 | 0 | NS | NS | 0 | NS | NS | 3,350 | 1,370 | |
| | 137 | Lowe River | NS | NS | NS | NS | NS | NS | 0 | NS | NS | NS | NS | NS | NS | NS | NS | 0 | 0 | |
| | 143 | Siwash Creek | 0 | 0 | 0 | 0 | 20 | 50 | 0 | 0 | 0 | 90 | NS | NS | 30 | NS | NS | 190 | 140 | |
| | 145 | Crooked Creek | 0 | 0 | 0 | 10 | 20 | 250 | 0 | 0 | 1,000 | 1,500 | NS | NS | 1,000 | NS | NS | 3,780 | 2,520 | |
| | 148 | Mineral Flats | 0 | 0 | 0 | 0 | 100 | 700 | 0 | 0 | 2,000 | 1,990 | NS | NS | 2,900 | NS | NS | 7,690 | 5,090 | |
| | | Port Valdez 221–60 | 0 | 80 | 1,100 | 1,560 | 1,740 | 1,950 | 0 | 0 | 3,000 | 3,580 | 0 | 0 | 3,930 | 0 | 0 | 16,940 | 10,020 | |
| Eastern District TOTAL | | | 700 | 2,930 | 30,380 | 35,150 | 52,090 | 41,600 | 27,400 | 13,991 | 13,500 | 18,790 | 0 | 0 | 5,730 | 0 | 0 | 242,261 | 112,080 | |

–Continued–

Appendix F.6. (Pg 2 of 6).

| District | Stream Number | Name | Week Ending Date 6/24 | 7/01 | 7/08 | 7/15 | 7/22 | 7/29 | 8/05 | 8/12 | 8/19 | 8/26 | 9/02 | 9/09 | 9/16 | 9/23 | 9/30 | Total | Adjusted Total | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Northern** | 208 | Granite Cove | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | 0 | 0 | |
| | 213 | Bench Mark Creek | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NS | NS | 0 | NS | NS | 0 | 0 | |
| | 214 | Long Creek | 0 | 0 | 3,500 | 5,000 | 8,100 | 8,500 | 1,000 | 0 | 100 | 0 | NS | NS | 0 | NS | NS | 26,200 | 12,580 | |
| | 216 | Vanishing Creek | 0 | 0 | 50 | 600 | 400 | 600 | 0 | 0 | 0 | 0 | NS | NS | 0 | NS | NS | 1,650 | 690 | |
| | 217 | Spring Creek | 0 | 0 | 400 | 0 | 100 | 150 | 0 | 0 | 0 | 0 | NS | NS | 0 | NS | NS | 650 | 500 | |
| | 218 | Billy's Creek | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NS | NS | 0 | NS | NS | 0 | 0 | |
| | 221 | Eickelberg Creek | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NS | NS | 0 | NS | NS | 0 | 0 | |
| | | Columbia/Long 222–10 | 0 | 0 | 3,950 | 5,600 | 8,600 | 9,250 | 1,000 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 28,500 | 13,770 | |
| | 224 | Backyard Creek | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NS | NS | 0 | NS | NS | 0 | 0 | |
| | 227 | Granite Creek | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NS | NS | NS | NS | NS | 0 | 0 | |
| | 229 | Cedar Creek | 0 | 0 | 0 | 0 | 0 | 500 | 0 | 0 | 0 | 0 | NS | NS | NS | NS | NS | 500 | 500 | |
| | 232 | Delta Creek | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NS | NS | NS | NS | NS | 0 | 0 | |
| | 233 | Surplus Creek | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NS | NS | NS | NS | NS | 0 | 0 | |
| | 234 | Wells River | 100 | 600 | 7,500 | 15,000 | 9,000 | 8,000 | 5,000 | 4,000 | 0 | 0 | NS | NS | NS | NS | NS | 49,200 | 19,740 | |
| | 257 | Complex Creek | NS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NS | NS | NS | NS | NS | 0 | 0 | |
| | 258 | Williams Creek | NS | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | NS | NS | NS | NS | NS | 0 | 0 | |
| | 259 | Jonah Creek | NS | 0 | 0 | 30 | 50 | 500 | 1,500 | 500 | 800 | 0 | NS | NS | NS | NS | NS | 3,380 | 1,500 | peak |
| | 263 | Waterfall Creek | NS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NS | NS | NS | NS | NS | 0 | 0 | |
| | 264 | Siwash River | NS | 0 | 0 | 20 | 200 | 250 | 0 | 710 | 300 | 0 | NS | NS | NS | NS | NS | 1,480 | 710 | peak |
| | 265 | Unakwik Creek | NS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | NS | NS | NS | NS | NS | 10 | 10 | |
| | | Wells/Unakwik 222–20 | 100 | 600 | 7,500 | 15,050 | 9,250 | 9,250 | 6,500 | 5,210 | 1,110 | 0 | 0 | 0 | 0 | 0 | 0 | 54,570 | 22,460 | |
| | 273 | Schope Creek | NS | 0 | 0 | 0 | 0 | 0 | 300 | 100 | 0 | 0 | NS | NS | NS | NS | NS | 400 | 340 | |
| | 276 | Black Bear Creek | NS | 0 | 0 | 0 | 20 | 50 | 0 | 600 | 400 | 300 | NS | NS | NS | NS | NS | 1,370 | 600 | peak |
| | 277 | Dead Creek | NS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | NS | NS | NS | NS | NS | 10 | 10 | |
| | 278 | Comeback Creek | NS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NS | NS | NS | NS | NS | 0 | 0 | |
| | 279 | Canyon Creek | NS | 0 | 150 | 50 | 0 | 50 | 1,700 | 1,000 | 600 | 0 | NS | NS | NS | NS | NS | 3,550 | 1,700 | peak |
| | 282 | Good Creek | NS | 0 | 0 | 0 | 50 | 400 | 2,000 | 3,000 | 1,100 | 1,100 | NS | NS | NS | NS | NS | 7,650 | 3,090 | |
| | 283 | Bad Creek | NS | 0 | 0 | 0 | 10 | 100 | 4,500 | 1,000 | 900 | 900 | NS | NS | NS | NS | NS | 7,410 | 4,500 | peak |
| | | Eaglek 222–30 | 0 | 0 | 150 | 50 | 80 | 600 | 8,500 | 5,700 | 3,010 | 2,300 | 0 | 0 | 0 | 0 | 0 | 20,390 | 10,240 | |
| | 242 | Cowpen Creek | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | 0 | 0 | |
| | | Unakwik District 222–50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Northern District TOTAL | | | 100 | 600 | 11,600 | 20,700 | 17,930 | 19,100 | 16,000 | 10,910 | 4,220 | 2,300 | 0 | 0 | 0 | 0 | 0 | 103,460 | 46,470 | |

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Appendix F.6. (Pg 3 of 6).

| District | Stream Number | Name | Week Ending Date 6/24 | 7/01 | 7/08 | 7/15 | 7/22 | 7/29 | 8/05 | 8/12 | 8/19 | 8/26 | 9/02 | 9/09 | 9/16 | 9/23 | 9/30 | Total | Adjusted Total | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Coghill** | 414 | Harrison Creek | NS | 0 | 0 | 0 | 0 | 0 | NS | 10 | 0 | NS | NS | NS | NS | NS | NS | 10 | 10 | |
| | 417 | Hobo Creek | NS | 0 | 0 | 0 | 0 | 0 | NS | 0 | 10 | NS | NS | NS | NS | NS | NS | 10 | 10 | |
| | 421 | Mill Creek | NS | 0 | 0 | NS | 300 | 750 | NS | 8,500 | 4,000 | NS | NS | NS | NS | NS | NS | 13,550 | 8,500 | peak |
| | 424 | Old Creek | NS | 0 | 0 | 0 | 0 | 0 | NS | 500 | 100 | NS | NS | NS | NS | NS | NS | 600 | 540 | |
| | 425 | Hummer Creek | NS | 0 | 0 | 0 | 20 | 200 | NS | 1,000 | 50 | NS | NS | NS | NS | NS | NS | 1,270 | 1,000 | peak |
| | 428 | Pirate Creek | NS | 0 | 0 | 0 | 0 | 0 | NS | | 0 | NS | NS | NS | NS | NS | NS | 0 | 0 | |
| | 430 | Meacham Creek | NS | 2 | 0 | 150 | 0 | 100 | NS | 1,000 | 0 | NS | NS | NS | NS | NS | NS | 1,252 | 1,000 | peak |
| | 432 | Swanson Creek | NS | 1 | 0 | 90 | 500 | 700 | NS | 5,500 | 700 | NS | NS | NS | NS | NS | NS | 7,491 | 5,500 | peak |
| | | W. Port Wells 223–10 | 0 | 3 | 0 | 240 | 820 | 1,750 | 0 | 16,510 | 4,860 | 0 | 0 | 0 | 0 | 0 | 0 | 24,183 | 16,560 | |
| | 303 | Triple Creek | NS | 0 | 0 | 0 | 0 | 0 | NS | 0 | 0 | 0 | NS | NS | NS | NS | NS | 0 | 0 | |
| | 307 | Village Creek | NS | 0 | 0 | 0 | 0 | 0 | NS | 0 | 0 | 0 | NS | NS | NS | NS | NS | 0 | 0 | |
| | | Esther Passage 223–20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 310 | Golden Lagoon | NS | 0 | 0 | 0 | 0 | 0 | NS | 0 | 0 | 0 | NS | NS | NS | NS | NS | 0 | 0 | |
| | 314 | Avery River | NS | 0 | 0 | 0 | 0 | | NS | 0 | 0 | 0 | NS | NS | NS | NS | NS | 0 | 0 | |
| | 322 | Coghill River – Below Weir | NS | 0 | 0 | 300 | 1,800 | 1,500 | NS | 5,000 | 3,000 | NS | NS | NS | NS | NS | NS | 11,600 | 6,120 | |
| | 3221 | Coghill River – Lake Count | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | 0 | 0 | |
| | | E. Port Wells 223–30 | 0 | 0 | 0 | 300 | 1,800 | 1,500 | 0 | 5,000 | 3,000 | 0 | 0 | 0 | 0 | 0 | 0 | 11,600 | 6,120 | |
| Coghill District TOTAL | | | 0 | 3 | 0 | 540 | 2,620 | 3,250 | 0 | 21,510 | 7,860 | 0 | 0 | 0 | 0 | 0 | 0 | 35,783 | 22,680 | |
| **Northwestern** | 435 | Logging Camp Creek | NS | 0 | 0 | 20 | 0 | 0 | NS | 300 | 0 | NS | NS | NS | NS | NS | NS | 320 | 300 | peak |
| | 450 | Tebenkoff Creek | NS | 0 | 0 | 300 | 1,000 | 1,200 | NS | 1,200 | 0 | NS | NS | NS | NS | NS | NS | 3,700 | 2,140 | |
| | 451 | Blackstone Creek | NS | 0 | 0 | 40 | 20 | 100 | NS | 900 | 0 | NS | NS | NS | NS | NS | NS | 1,060 | 900 | peak |
| | 454 | Halferty Creek | NS | 0 | 350 | 500 | 2,500 | 2,800 | NS | 3,300 | 1,000 | NS | NS | NS | NS | NS | NS | 10,450 | 5,610 | |
| | 455 | Paulson Creek | NS | 0 | 200 | 3,200 | 1,800 | 1,200 | NS | 500 | 0 | NS | NS | NS | NS | NS | NS | 6,900 | 3,220 | |
| | 458 | Parks Creek | NS | 0 | 0 | 0 | 300 | | NS | 100 | 0 | NS | NS | NS | NS | NS | NS | 400 | 680 | |
| | 461 | Cochrane Creek | NS | 0 | 0 | 0 | 0 | 100 | NS | 0 | 0 | NS | NS | NS | NS | NS | NS | 100 | 100 | |
| | 469 | Wickett Creek | NS | 0 | 0 | 50 | 10 | 100 | NS | 200 | 0 | NS | NS | NS | NS | NS | NS | 360 | 230 | |
| | | Passage/Cochrane 224–10 | 0 | 0 | 550 | 4,110 | 5,630 | 5,500 | 0 | 6,500 | 1,000 | 0 | 0 | 0 | 0 | 0 | 0 | 23,290 | 13,180 | |
| | 471 | Narrows Creek | NS | 0 | 0 | 0 | 0 | 0 | NS | 0 | 0 | NS | NS | NS | NS | NS | NS | 0 | 0 | |
| | 476 | Shrode Creek | NS | 0 | 0 | 10 | 1,300 | 800 | NS | 0 | 0 | NS | NS | NS | NS | NS | NS | 2,110 | 1,300 | peak |
| | 479 | Culross Creek | NS | 0 | 0 | 0 | 0 | 0 | NS | 0 | 0 | NS | NS | NS | NS | NS | NS | 0 | 0 | |
| | | Culross Pass 224–30 | 0 | 0 | 0 | 10 | 1,300 | 800 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,110 | 1,300 | |
| | 480 | Mink Creek | NS | 0 | 100 | 2,500 | 1,800 | 1,500 | NS | 100 | 0 | NS | NS | NS | 0 | NS | NS | 6,000 | 2,780 | |
| | 484 | E. Finger Creek | NS | 0 | 0 | 392 | 300 | 600 | NS | 0 | 0 | NS | NS | NS | 0 | NS | NS | 1,292 | 750 | |
| | 485 | W. Finger Creek | NS | 0 | 0 | 1,700 | 1,800 | 3,000 | NS | 1,000 | 1,000 | NS | NS | NS | 0 | NS | NS | 8,500 | 5,220 | |
| | 493 | Most Creek | NS | 0 | 0 | 0 | 0 | 0 | NS | 500 | 0 | NS | NS | NS | 0 | NS | NS | 500 | 500 | |
| | 495 | Chimevisky Lagoon | NS | 0 | 0 | 1,000 | 700 | 200 | NS | 3,700 | 0 | NS | NS | NS | 0 | NS | NS | 5,600 | 3,700 | peak |
| | 498 | McClure Creek | NS | 0 | 0 | 0 | 0 | 0 | NS | 0 | 0 | NS | NS | NS | 0 | NS | NS | 0 | 0 | |
| | | Nellie Juan 224–40 | 0 | 0 | 100 | 5,592 | 4,600 | 5,300 | 0 | 5,300 | 1,000 | 0 | 0 | 0 | 0 | 0 | 0 | 21,892 | 12,950 | |
| Northwestern District TOTAL | | | 0 | 0 | 650 | 9,712 | 11,530 | 11,600 | 0 | 11,800 | 2,000 | 0 | 0 | 0 | 0 | 0 | 0 | 47,292 | 27,430 | |

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Appendix F.6. (Pg 4 of 6).

| District | Stream Number | Name | Week Ending Date 6/24 | 7/01 | 7/08 | 7/15 | 7/22 | 7/29 | 8/05 | 8/12 | 8/19 | 8/26 | 9/02 | 9/09 | 9/16 | 9/23 | 9/30 | Total | Adjusted Total | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Eshamy** | 506 | Loomis Creek | NS | NS | NS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NS | 0 | 0 | NS | NS | 0 | 0 | |
| | 508 | North Shore – Eshamy Lgn | NS | NS | NS | NS | 0 | 0 | 50 | 0 | 0 | 0 | NS | 0 | 0 | NS | NS | 50 | 50 | |
| | 510 | Elishansky Creek | NS | NS | NS | NS | 0 | 250 | 50 | 0 | 0 | 0 | NS | 0 | 0 | NS | NS | 300 | 270 | |
| Eshamy District TOTAL | | | 0 | 0 | 0 | 0 | 0 | 250 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 350 | 320 | |
| **Southwestern** | 601 | Paddy Creek | NS | NS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NS | 0 | 0 | NS | NS | 0 | 0 | |
| | 603 | Ewan Creek | NS | NS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NS | NS | 0 | 0 | NS | NS | 0 | 0 | |
| | 604 | Erb Creek | NS | NS | 0 | NS | 50 | 0 | 100 | 1,000 | 100 | NS | NS | 0 | 0 | NS | NS | 1,250 | 1,000 | peak |
| | 608 | Jackpot River | NS | NS | 0 | NS | 0 | 0 | 0 | 0 | 0 | NS | NS | 200 | 0 | NS | NS | 200 | 200 | |
| | 610 | Kompkoff River | NS | NS | 0 | NS | 0 | 0 | 0 | 0 | 0 | NS | NS | 0 | 0 | NS | NS | 0 | 0 | |
| | 611 | Jackpot Bay – West Arm | NS | NS | 0 | NS | 0 | 50 | 0 | 0 | 0 | NS | NS | 0 | 0 | NS | NS | 50 | 50 | |
| | 612 | Jackpot Bay – West Arm | NS | NS | 0 | NS | 100 | 400 | 100 | 0 | 0 | NS | NS | 0 | 0 | NS | NS | 600 | 400 | peak |
| | 613 | Jackson Creek | NS | NS | 600 | 2,000 | 7,000 | 6,000 | 4,000 | 2,000 | 0 | NS | NS | 0 | 0 | NS | NS | 21,600 | 9,000 | |
| | 621 | Totemoff Creek | NS | NS | 0 | NS | 0 | 0 | 0 | 10 | 0 | NS | NS | 0 | 0 | NS | NS | 10 | 10 | |
| | 623 | Brizgaloff Creek | NS | NS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NS | NS | 0 | 0 | NS | NS | 0 | 0 | |
| | 630 | Bainbridge Creek | NS | NS | 0 | NS | 0 | 0 | 500 | 0 | 0 | NS | NS | 0 | 0 | NS | NS | 500 | 500 | |
| | 632 | Claw Creek | NS | NS | 0 | NS | 0 | 0 | 100 | 0 | 0 | NS | NS | 0 | 0 | NS | NS | 100 | 100 | |
| | 633 | Pablo Creek | NS | NS | 0 | NS | 0 | 100 | 27 | 0 | 0 | NS | NS | 0 | 0 | NS | NS | 127 | 110 | |
| | 634 | Whale Bay–B. Head–S. Arm | NS | NS | 0 | NS | 0 | 0 | 0 | 0 | 0 | NS | NS | 0 | 0 | NS | NS | 0 | 0 | |
| | 636 | Whale Creek | NS | NS | 0 | NS | 0 | 28 | 50 | 0 | 0 | NS | NS | 0 | 0 | NS | NS | 78 | 50 | |
| | Chenega | 226–20 | 0 | 0 | 600 | 2,000 | 7,150 | 6,578 | 4,877 | 3,010 | 100 | 0 | 0 | 200 | 0 | 0 | 0 | 24,515 | 11,420 | |
| | 655 | Johnson Creek | NS | NS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NS | NS | 0 | 0 | NS | NS | 0 | 0 | |
| | 656 | Halverson Creek | NS | NS | 0 | 0 | 200 | 150 | 0 | 0 | 0 | NS | NS | 0 | 0 | NS | NS | 350 | 260 | |
| | 666 | O'Brien Creek | NS | NS | 0 | NS | 0 | 0 | 0 | 0 | 0 | NS | NS | 0 | 10 | NS | NS | 10 | 10 | |
| | 670 | Montgomery Creek | NS | NS | NS | NS | 0 | 0 | 0 | 0 | 0 | NS | NS | 0 | 0 | NS | NS | 0 | 0 | |
| | 676 | Horseshoe Creek | NS | NS | 0 | NS | 0 | 0 | 0 | 0 | 0 | NS | NS | 0 | 0 | NS | NS | 0 | 0 | |
| | Bainbridge/Latouche | 226–40 | 0 | 0 | 0 | 0 | 200 | 150 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 360 | 270 | |
| Southwestern District TOTAL | | | 0 | 0 | 600 | 2,000 | 7,350 | 6,728 | 4,877 | 3,010 | 100 | 0 | 0 | 200 | 10 | 0 | 0 | 24,875 | 11,690 | |

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Appendix F.6. (Pg 5 of 6).

| District | Stream Number | Name | Week Ending Date 6/24 | 7/01 | 7/08 | 7/15 | 7/22 | 7/29 | 8/05 | 8/12 | 8/19 | 8/26 | 9/02 | 9/09 | 9/16 | 9/23 | 9/30 | Total | Adjusted Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Montague** | 702 | Point Creek | NS | NS | NS | NS | 0 | 0 | 0 | | 0 | NS | NS | 0 | NS | NS | NS | 0 | 0 |
| | 707 | MacLeod Creek | NS | NS | NS | NS | 0 | 0 | 0 | | 0 | NS | NS | 0 | NS | NS | NS | 0 | 0 |
| | 710 | Hanning Creek | NS | NS | NS | NS | 0 | 0 | 0 | 0 | 0 | NS | NS | 0 | NS | NS | NS | 0 | 0 |
| | 711 | Quadra Creek | NS | NS | NS | NS | 0 | 0 | 0 | | 0 | NS | NS | 0 | NS | NS | NS | 0 | 0 |
| | 717 | Montague I. – West Shore | NS | NS | NS | NS | 0 | 0 | 0 | 0 | 0 | NS | NS | 0 | NS | NS | NS | 0 | 0 |
| | 726 | Montague Creek | NS | NS | NS | NS | 0 | 0 | 0 | 0 | 0 | NS | NS | | NS | NS | NS | 0 | 0 |
| | S. Montague | 227–10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 738 | Russell Creek | NS | NS | NS | NS | 0 | 0 | 0 | 0 | 0 | NS | NS | 0 | 0 | NS | NS | 0 | 0 |
| | 739 | Swamp Creek | NS | NS | NS | NS | 0 | 0 | 0 | 0 | 0 | NS | NS | 0 | 0 | NS | NS | 0 | 0 |
| | 740 | Kelez Creek | NS | NS | NS | NS | 0 | 0 | 0 | 0 | 0 | NS | NS | 0 | 0 | NS | NS | 0 | 0 |
| | 741 | Chalmers River | NS | NS | NS | NS | 0 | 0 | 0 | 0 | 0 | NS | NS | 0 | 0 | NS | NS | 0 | 0 |
| | 744 | Wilby Creek | NS | NS | NS | NS | 0 | 0 | 0 | 0 | 0 | NS | NS | 0 | 0 | NS | NS | 0 | 0 |
| | 745 | Wild Creek | NS | NS | NS | NS | 0 | 0 | 0 | 0 | 0 | NS | NS | 0 | 0 | NS | NS | 0 | 0 |
| | 746 | Schuman Creek | NS | NS | NS | NS | 0 | 0 | 0 | 0 | NS | NS | NS | 0 | 0 | NS | NS | 0 | 0 |
| | 747 | Cabin Creek | NS | NS | NS | NS | 0 | 0 | 0 | 0 | 0 | NS | NS | 0 | 0 | NS | NS | 0 | 0 |
| | 748 | Gilmour Creek | NS | NS | NS | NS | 0 | 0 | 0 | 0 | 0 | NS | NS | 0 | 0 | NS | NS | 0 | 0 |
| | 749 | Shad Creek | NS | NS | NS | NS | 0 | 0 | 0 | 0 | 0 | NS | NS | 0 | 0 | NS | NS | 0 | 0 |
| | 752 | Stockdale Creek | NS | NS | NS | NS | 0 | 0 | 0 | 0 | 0 | 0 | NS | 0 | 0 | NS | NS | 0 | 0 |
| | 770 | Udall Creek | NS | NS | NS | NS | 0 | 0 | 0 | 0 | 0 | NS | NS | 0 | NS | NS | NS | 0 | 0 |
| | 774 | Rosswog Creek | NS | NS | NS | NS | 0 | 0 | 0 | 0 | 0 | NS | NS | 0 | NS | NS | NS | 0 | 0 |
| | 775 | Pautze Creek | NS | NS | NS | NS | 0 | 0 | 0 | 0 | 0 | NS | NS | 0 | NS | NS | NS | 0 | 0 |
| | N. Montague | 227–20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Montague District TOTAL | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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Appendix F.6. (Pg 6 of 6).

| District | Stream Number | Name | Week Ending Date 6/24 | 7/01 | 7/08 | 7/15 | 7/22 | 7/29 | 8/05 | 8/12 | 8/19 | 8/26 | 9/02 | 9/09 | 9/16 | 9/23 | 9/30 | Total | Adjusted Total | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Southeastern** | 833 | Bates Creek | NS | NS | 0 | 0 | 0 | 0 | NS | 0 | 0 | NS | NS | NS | NS | NS | NS | 0 | 0 | |
| | 834 | Hardy Creek | NS | NS | 0 | 0 | 300 | 0 | NS | 0 | 0 | NS | NS | NS | NS | NS | NS | 300 | 300 | |
| | 835 | Scott Creek | NS | NS | 0 | 7 | 0 | 0 | NS | 0 | 0 | NS | NS | NS | NS | NS | NS | 7 | 10 | |
| | 836 | Dan's Creek | NS | NS | 0 | 0 | 0 | 0 | NS | 0 | 0 | NS | NS | NS | NS | NS | NS | 0 | 0 | |
| | 837 | Widgeon Creek | NS | NS | 0 | 0 | 0 | 0 | NS | 0 | 0 | NS | NS | NS | NS | NS | NS | 0 | 0 | |
| | 839 | Goose Creek | NS | NS | 0 | 0 | 100 | 0 | NS | 0 | 0 | NS | NS | NS | NS | NS | NS | 100 | 100 | |
| | Cutoff | 228-20 | 0 | 0 | 0 | 7 | 400 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 407 | 410 | |
| | 844 | Makaka Creek | NS | NS | 0 | 0 | 0 | 0 | NS | 0 | 0 | NS | NS | NS | NS | NS | NS | 0 | 0 | |
| | 847 | Hawkins Creek | NS | NS | 0 | 0 | 0 | 0 | NS | 0 | 0 | NS | NS | NS | NS | NS | NS | 0 | 0 | |
| | 849 | Rollins Creek | NS | NS | 0 | 0 | 0 | 0 | NS | 0 | 0 | NS | NS | NS | NS | NS | NS | 0 | 0 | |
| | 850 | Canoe Creek | NS | NS | 0 | 0 | 0 | 0 | NS | 0 | 0 | NS | NS | NS | NS | NS | NS | 0 | 0 | |
| | 851 | Zillesenoff Creek | NS | NS | 0 | 0 | 0 | 0 | NS | 0 | 0 | NS | NS | NS | NS | NS | NS | 0 | 0 | |
| | 861 | Bernard Creek | NS | NS | 0 | 0 | 0 | 0 | NS | 0 | 0 | NS | NS | NS | NS | NS | NS | 0 | 0 | |
| | N. Hawkins | 228-30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 827 | Captain Creek | NS | NS | 0 | 0 | 2,000 | 0 | NS | 0 | 300 | NS | NS | NS | NS | NS | NS | 2,300 | 2,120 | |
| | 828 | Cook Creek | NS | NS | 0 | 3,500 | 1,900 | 700 | NS | 0 | 2,000 | NS | NS | NS | NS | NS | NS | 8,100 | 5,480 | |
| | 829 | King Creek | NS | NS | 0 | 0 | 100 | 0 | NS | 0 | 400 | NS | NS | NS | NS | NS | NS | 500 | 400 | peak |
| | 831 | Double Creek | NS | NS | 0 | 0 | 1,000 | 200 | NS | 0 | 1,400 | NS | NS | NS | NS | NS | NS | 2,600 | 1,680 | |
| | Double Bay | 228-40 | 0 | 0 | 0 | 3,500 | 5,000 | 900 | 0 | 0 | 4,100 | 0 | 0 | 0 | 0 | 0 | 0 | 13,500 | 9,680 | |
| | 817 | Deer Creek | NS | NS | 0 | 100 | 50 | 200 | NS | 0 | 0 | NS | NS | NS | NS | NS | NS | 350 | 200 | |
| | 818 | Juania Creek | NS | NS | 0 | 50 | 100 | 0 | NS | 0 | 0 | NS | NS | NS | NS | NS | NS | 150 | 100 | peak |
| | 821 | Brown Bear Creek | NS | NS | 60 | 700 | 2,100 | 1,000 | NS | 300 | 0 | NS | NS | NS | NS | NS | NS | 4,160 | 2,100 | peak |
| | Johnstone | 228-50 | 0 | 0 | 60 | 850 | 2,250 | 1,200 | 0 | 300 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4,660 | 2,400 | |
| | 806 | Dog Salmon Creek | NS | NS | 0 | 0 | 0 | 0 | NS | 0 | 0 | NS | NS | NS | NS | NS | NS | 0 | 0 | |
| | 807 | Beaver Creek | NS | NS | 0 | 0 | 0 | 0 | NS | 0 | 0 | NS | NS | NS | NS | NS | NS | 0 | 0 | |
| | 810 | Garden Creek | NS | NS | 0 | 10 | 0 | 0 | NS | 0 | 0 | NS | NS | NS | NS | NS | NS | 10 | 10 | |
| | 811 | Etches Creek | NS | NS | 0 | 0 | 0 | 0 | NS | 0 | 0 | NS | NS | NS | NS | NS | NS | 0 | 0 | |
| | 812 | Nuchek Creek | NS | NS | 0 | 0 | 1,200 | 0 | NS | 0 | 0 | NS | NS | NS | NS | NS | NS | 1,200 | 1,200 | |
| | 815 | Constantine Creek | NS | NS | 300 | 3,100 | 8,000 | 6,000 | NS | 1,000 | 0 | NS | NS | NS | NS | NS | NS | 18,400 | 8,940 | |
| | Etches | 228-60 | 0 | 0 | 300 | 3,110 | 9,200 | 6,000 | 0 | 1,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19,610 | 10,150 | |
| Southeastern District TOTAL | | | 0 | 0 | 360 | 7,467 | 16,850 | 8,100 | 0 | 1,300 | 4,100 | 0 | 0 | 0 | 0 | 0 | 0 | 38,177 | 22,640 | |
| TOTAL OF 8 DISTRICTS | | | 800 | 3,533 | 43,590 | 75,569 | 108,370 | 90,628 | 48,377 | 62,521 | 31,780 | 21,090 | 0 | 200 | 5,740 | 0 | 0 | 492,198 | 243,310 | |

NS = No Survey.

Appendix F.7. Temporally stratified age and sex composition of the sockeye salmon escapement through the weir on the outlet stream of Coghill Lake, 1989.

| | | Brood Year and Age Group | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1986 | 1985 | | | 1984 | | 1983 | | 1982 | |
| | | 1.1 | 0.3 | 1.2 | 2.1 | 1.3 | 2.2 | 1.4 | 2.3 | 2.4 | Total |
| Stratum Dates: | 6/10–7/02 | | | | | | | | | | |
| Sampling Dates: | 6/22–6/29 | | | | | | | | | | |
| Sample Size: | 593 | | | | | | | | | | |
| Female | Percent of Sample | 0.0 | 0.0 | 0.5 | 0.0 | 36.4 | 0.7 | 0.0 | 6.1 | 0.2 | 43.8 |
| | Number in Catch | 0 | 0 | 23 | 0 | 1,642 | 30 | 0 | 274 | 8 | 1,976 |
| Male | Percent of Sample | 0.0 | 0.0 | 6.1 | 0.2 | 34.7 | 8.1 | 0.0 | 6.9 | 0.2 | 56.2 |
| | Number in Catch | 0 | 0 | 274 | 8 | 1,566 | 365 | 0 | 312 | 8 | 2,531 |
| Total | Percent of Sample | 0.0 | 0.0 | 6.6 | 0.2 | 71.2 | 8.8 | 0.0 | 13.0 | 0.3 | 100.0 |
| | Number in Catch | 0 | 0 | 296 | 8 | 3,207 | 395 | 0 | 585 | 15 | 4,507 |
| | Standard Error | 0 | 0 | 46 | 8 | 84 | 52 | 0 | 62 | 11 | |
| Stratum Dates: | 7/03–7/12 | | | | | | | | | | |
| Sampling Dates: | 7/06–7/07 | | | | | | | | | | |
| Sample Size: | 604 | | | | | | | | | | |
| Female | Percent of Sample | 0.2 | 0.0 | 0.3 | 0.2 | 49.8 | 0.8 | 0.2 | 5.8 | 0.0 | 57.3 |
| | Number in Catch | 29 | 0 | 57 | 29 | 8,585 | 143 | 29 | 998 | 0 | 9,868 |
| Male | Percent of Sample | 0.0 | 0.2 | 0.8 | 0.5 | 35.1 | 1.3 | 0.0 | 4.6 | 0.2 | 42.7 |
| | Number in Catch | 0 | 29 | 143 | 86 | 6,047 | 228 | 0 | 799 | 29 | 7,359 |
| Total | Percent of Sample | 0.2 | 0.2 | 1.2 | 0.7 | 84.9 | 2.2 | 0.2 | 10.4 | 0.2 | 100.0 |
| | Number in Catch | 29 | 29 | 200 | 114 | 14,632 | 371 | 29 | 1,797 | 29 | 17,227 |
| | Standard Error | 29 | 29 | 75 | 57 | 251 | 102 | 29 | 214 | 29 | |
| Stratum Dates: | 7/13–7/27 | | | | | | | | | | |
| Sampling Dates: | 7/18 | | | | | | | | | | |
| Sample Size: | 611 | | | | | | | | | | |
| Female | Percent of Sample | 0.0 | 0.0 | 1.0 | 0.0 | 57.1 | 2.5 | 0.5 | 5.4 | 0.7 | 67.1 |
| | Number in Catch | 0 | 0 | 157 | 0 | 9,149 | 393 | 79 | 865 | 105 | 10,748 |
| Male | Percent of Sample | 0.0 | 0.0 | 0.8 | 0.3 | 25.7 | 1.5 | 0.5 | 3.4 | 0.7 | 32.9 |
| | Number in Catch | 0 | 0 | 131 | 52 | 4,116 | 236 | 79 | 551 | 105 | 5,269 |
| Total | Percent of Sample | 0.0 | 0.0 | 1.8 | 0.3 | 82.8 | 3.9 | 1.0 | 8.8 | 1.3 | 100.0 |
| | Number in Catch | 0 | 0 | 288 | 52 | 13,264 | 629 | 157 | 1,416 | 210 | 16,017 |
| | Standard Error | 0 | 0 | 86 | 37 | 245 | 126 | 64 | 184 | 74 | |
| Strata Combined: | 6/10–7/27 | | | | | | | | | | |
| Sampling Dates: | 6/22–7/18 | | | | | | | | | | |
| Sample Size: | 1,808 | | | | | | | | | | |
| Female | Percent of Sample | 0.1 | 0.0 | 0.6 | 0.1 | 51.3 | 1.5 | 0.3 | 5.7 | 0.3 | 59.8 |
| | Number in Catch | 29 | 0 | 237 | 29 | 19,375 | 566 | 107 | 2,137 | 112 | 22,592 |
| Male | Percent of Sample | 0.0 | 0.1 | 1.4 | 0.4 | 31.1 | 2.2 | 0.2 | 4.4 | 0.4 | 40.2 |
| | Number in Catch | 0 | 29 | 547 | 146 | 11,728 | 829 | 79 | 1,661 | 141 | 15,159 |
| Total | Percent of Sample | 0.1 | 0.1 | 2.1 | 0.5 | 82.4 | 3.7 | 0.5 | 10.1 | 0.7 | 100.0 |
| | Number in Catch | 29 | 29 | 784 | 174 | 31,103 | 1,395 | 186 | 3,798 | 253 | 37,751 |
| | Standard Error | 29 | 29 | 123 | 68 | 360 | 170 | 70 | 289 | 80 | |

Appendix F.8. Temporally stratified age and sex composition of the sockeye salmon escapement through the weir at the head of Eshamy Lagoon, 1989.

| | | Brood Year and Age Group | | | | | |
|---|---|---|---|---|---|---|---|
| | | 1986 | 1985 | 1984 | | 1983 | |
| | | 1.1 | 1.2 | 1.3 | 2.2 | 2.3 | Total |
| Stratum Dates: | 6/18–7/31 [a] | | | | | | |
| Sampling Dates: | 7/13–7/21 | | | | | | |
| Sample Size: | 533 | | | | | | |
| Female | Percent of Sample | 0.0 | 40.3 | 8.1 | 8.8 | 1.3 | 58.5 |
| | Number in Catch | 0 | 9,981 | 1,996 | 2,182 | 325 | 14,484 |
| Male | Percent of Sample | 0.0 | 29.3 | 4.7 | 6.8 | 0.8 | 41.5 |
| | Number in Catch | 0 | 7,242 | 1,161 | 1,671 | 186 | 10,260 |
| Total | Percent of Sample | 0.0 | 69.6 | 12.8 | 15.6 | 2.1 | 100.0 |
| | Number in Catch | 0 | 17,223 | 3,157 | 3,853 | 511 | 24,744 |
| | Standard Error | 0 | 493 | 358 | 389 | 153 | |
| Stratum Dates: | 8/01–8/21 | | | | | | |
| Sampling Dates: | 8/10–8/13 | | | | | | |
| Sample Size: | 571 | | | | | | |
| Female | Percent of Sample | 0.0 | 43.3 | 0.2 | 8.1 | 0.0 | 51.5 |
| | Number in Catch | 0 | 9,606 | 39 | 1,789 | 0 | 11,434 |
| Male | Percent of Sample | 0.0 | 38.7 | 1.6 | 8.1 | 0.2 | 48.5 |
| | Number in Catch | 0 | 8,595 | 350 | 1,789 | 39 | 10,772 |
| Total | Percent of Sample | 0.0 | 82.0 | 1.8 | 16.1 | 0.2 | 100.0 |
| | Number in Catch | 0 | 18,200 | 389 | 3,578 | 39 | 22,206 |
| | Standard Error | 0 | 358 | 122 | 342 | 39 | |
| Stratum Dates: | 8/22–9/08 | | | | | | |
| Sampling Dates: | 8/27–8/29 | | | | | | |
| Sample Size: | 602 | | | | | | |
| Female | Percent of Sample | 2.5 | 55.0 | 1.0 | 0.2 | 0.0 | 58.6 |
| | Number in Catch | 278 | 6,145 | 111 | 19 | 0 | 6,554 |
| Male | Percent of Sample | 2.7 | 37.9 | 0.8 | 0.0 | 0.0 | 41.4 |
| | Number in Catch | 297 | 4,233 | 93 | 0 | 0 | 4,623 |
| Total | Percent of Sample | 5.1 | 92.9 | 1.8 | 0.2 | 0.0 | 100.0 |
| | Number in Catch | 576 | 10,379 | 204 | 19 | 0 | 11,177 |
| | Standard Error | 101 | 117 | 61 | 19 | 0 | |
| Strata Combined: | 6/18–9/08 | | | | | | |
| Sampling Dates: | 7/13–8/29 | | | | | | |
| Sample Size: | 1,706 | | | | | | |
| Female | Percent of Sample | 0.5 | 44.3 | 3.7 | 6.9 | 0.6 | 55.9 |
| | Number in Catch | 278 | 25,732 | 2,147 | 3,989 | 325 | 32,472 |
| Male | Percent of Sample | 0.5 | 34.5 | 2.8 | 6.0 | 0.4 | 44.1 |
| | Number in Catch | 297 | 20,070 | 1,603 | 3,460 | 225 | 25,655 |
| Total | Percent of Sample | 1.0 | 78.8 | 6.5 | 12.8 | 0.9 | 100.0 |
| | Number in Catch | 576 | 45,802 | 3,750 | 7,450 | 550 | 58,127 |
| | Standard Error | 101 | 621 | 383 | 518 | 157 | |

[a] From 6/18–7/05 counts were obtained from a smolt weir operated by FRED Division.

Appendix F.9. Estimated age and sex composition of the sockeye salmon escapement through the Jackpot Weir, 1989.

| | | Brood Year and Age Group | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 1986 | 1985 | | 1984 | | | 1983 | | |
| | | 0.2 | 0.3 | 1.2 | 0.4 | 1.3 | 2.2 | 1.4 | 2.3 | Total |
| Stratum Dates: | 07/01 - 08/14 | | | | | | | | | |
| Sampling Dates: | 07/17 - 08/14 | | | | | | | | | |
| Sample Size: | 363 | | | | | | | | | |
| Female | Percent of Sample | 0.0 | 0.6 | 0.6 | 0.0 | 26.4 | 1.4 | 0.3 | 3.0 | 32.2 |
| | Number in Escapement | 0 | 16 | 16 | 0 | 789 | 41 | 8 | 90 | 961 |
| Male | Percent of Sample | 0.3 | 0.3 | 4.7 | 0.3 | 55.9 | 2.2 | 0.0 | 3.9 | 67.5 |
| | Number in Escapement | 8 | 8 | 140 | 8 | 1,668 | 66 | 0 | 115 | 2,013 |
| Total | Percent of Sample | 0.3 | 0.8 | 5.2 | 0.3 | 82.6 | 3.6 | 0.3 | 6.9 | 100.0 |
| | Number in Escapement | 8 | 25 | 156 | 8 | 2,465 | 107 | 8 | 205 | 2,983 |
| | Standard Error | 8 | 14 | 35 | 8 | 59 | 29 | 8 | 40 | |

Appendix F.10. Daily brood stock counts of chum salmon at Wally H. Noerenberg Hatchery, 1989.

| Date | Daily | Cumulative |
|---|---|---|
| 15–Jun | 0 | 0 |
| 16–Jun | 0 | 0 |
| 17–Jun | 2860 | 2860 |
| 18–Jun | 3080 | 5940 |
| 19–Jun | 3341 | 9281 |
| 20–Jun | 4275 | 13556 |
| 21–Jun | 3450 | 17006 |
| 22–Jun | 7750 | 24756 |
| 23–Jun | 3600 | 28356 |
| 24–Jun | 1940 | 30296 |
| 25–Jun | 8910 | 39206 |
| 26–Jun | 2650 | 41856 |
| 27–Jun | 3465 | 45321 |
| 28–Jun | 3085 | 48406 |
| 29–Jun | 1325 | 49731 |
| 30–Jun | 3425 | 53156 |
| 01–Jul | 1425 | 54581 |
| 02–Jul | 940 | 55521 |
| 03–Jul | 1475 | 56996 |
| 04–Jul | 600 | 57596 |
| 05–Jul | 1351 | 58947 |
| 06–Jul | 1192 | 60139 |
| 07–Jul | 1780 | 61919 |
| 08–Jul | 926 | 62845 |
| 09–Jul | 468 | 63313 |
| 10–Jul | 1495 | 64808 |
| 11–Jul | 465 | 65273 |
| 12–Jul | 153 | 65426 |
| 13–Jul | 692 | 66118 |
| 14–Jul | 8 | 66126 |
| 15–Jul | 904 | 67030 |
| 16–Jul | 4438 | 71468 |
| 17–Jul | 2422 | 73890 |
| 18–Jul | 1299 | 75189 |
| 19–Jul | 1221 | 76410 |
| 20–Jul | 585 | 76995 |
| 21–Jul | 570 | 77565 |
| 22–Jul | 1005 | 78570 |
| 23–Jul | 950 | 79520 |
| Totals | 79520 | 1945972 |

Appendix F.11. Estimated age and sex composition of chinook salmon in the Wally H. Noerenberg Hatchery brood stock, 1989.

| | | Brood Year and Age Group | | | | |
|---|---|---|---|---|---|---|
| | | 1986 | 1985 | 1984 | 1983 | |
| | | 1.1 | 1.2 | 1.3 | 1.4 | Total |
| Sampling Dates: | 07/25 - 08/18 | | | | | |
| Female | Sample Size | 1 | 0 | 41 | 2 | 44 |
| | Percent of Sample | 1.4 | 0.0 | 56.9 | 2.8 | 61.1 |
| Male | Sample Size | 0 | 1 | 23 | 4 | 28 |
| | Percent of Sample | 0.0 | 1.4 | 31.9 | 5.6 | 38.9 |
| Total | Sample Size | 1 | 1 | 64 | 6 | 72 |
| | Percent of Sample | 1.4 | 1.4 | 88.9 | 8.3 | 100.0 |
| | Standard Error | 1.4 | 1.4 | 3.7 | 3.3 | |

Appendix F.12. Temporally stratified age and sex composition of chum salmon in the Wally H. Noerenberg Hatchery brood stock, 1989.

| | | Brood Year and Age Group | | | | |
|---|---|---|---|---|---|---|
| | | 1986 | 1985 | 1984 | 1983 | |
| | | 0.2 | 0.3 | 0.4 | 0.5 | Total |
| Sampling Dates: | 07/08 | | | | | |
| Female | Sample Size | 0 | 4 | 46 | 53 | 103 |
| | Percent of Sample | 0.0 | 2.4 | 27.4 | 31.5 | 61.3 |
| Male | Sample Size | 0 | 3 | 28 | 34 | 65 |
| | Percent of Sample | 0.0 | 1.8 | 16.7 | 20.2 | 38.7 |
| Total | Sample Size | 0 | 7 | 74 | 87 | 168 |
| | Percent of Sample | 0.0 | 4.2 | 44.0 | 51.8 | 100.0 |
| | Standard Error | 0.0 | 1.5 | 3.8 | 3.9 | |
| Sampling Dates: | 07/24 | | | | | |
| Female | Sample Size | 0 | 49 | 22 | 1 | 72 |
| | Percent of Sample | 0.0 | 28.7 | 12.9 | 0.6 | 42.1 |
| Male | Sample Size | 0 | 53 | 41 | 5 | 99 |
| | Percent of Sample | 0.0 | 31.0 | 24.0 | 2.9 | 57.9 |
| Total | Sample Size | 0 | 102 | 63 | 6 | 171 |
| | Percent of Sample | 0.0 | 59.6 | 36.8 | 3.5 | 100.0 |
| | Standard Error | 0.0 | 3.8 | 3.7 | 1.4 | |
| Sampling Dates: | 08/04 | | | | | |
| Female | Sample Size | 4 | 78 | 11 | 0 | 93 |
| | Percent of Sample | 2.4 | 46.7 | 6.6 | 0.0 | 55.7 |
| Male | Sample Size | 6 | 64 | 4 | 0 | 74 |
| | Percent of Sample | 3.6 | 38.3 | 2.4 | 0.0 | 44.3 |
| Total | Sample Size | 10 | 142 | 15 | 0 | 167 |
| | Percent of Sample | 6.0 | 85.0 | 9.0 | 0.0 | 100.0 |
| | Standard Error | 1.8 | 2.8 | 2.2 | 0.0 | |
| Sampling Dates: | 08/09 - 08/11 | | | | | |
| Female | Sample Size | 0 | 76 | 10 | 0 | 86 |
| | Percent of Sample | 0.0 | 43.4 | 5.7 | 0.0 | 49.1 |
| Male | Sample Size | 5 | 65 | 19 | 0 | 89 |
| | Percent of Sample | 2.9 | 37.1 | 10.9 | 0.0 | 50.9 |
| Total | Sample Size | 5 | 141 | 29 | 0 | 175 |
| | Percent of Sample | 2.9 | 80.6 | 16.6 | 0.0 | 100.0 |
| | Standard Error | 1.3 | 3.0 | 2.8 | 0.0 | |

## APPENDIX G

Mean Lengths by Sex and Age of Salmon
in the Commercial Catches and Escapements
of the Copper/Bering Rivers and Prince William Sound.

Appendix G.1. Mean length by sex and age of sockeye salmon from the commercial common property drift gillnet catches in the Copper River District, 1989.

| | | Brood Year and Age Group | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1986 | | 1985 | | 1984 | | | 1983 | | 1982 |
| | | 0.2 | 1.1 | 0.3 | 1.2 | 0.4 | 1.3 | 2.2 | 1.4 | 2.3 | 2.4 |
| Sample Date: | 5/17 | | | | | | | | | | |
| Females | Mean Length (mm) | | | 557 | 498 | | 565 | | 538 | 549 | |
| | Std. Error | | | 4.5 | 0.0 | | 1.9 | | 0.0 | 4.6 | |
| | Sample Size | | | 25 | 1 | | 232 | | 1 | 49 | |
| Males | Mean Length (mm) | | | 586 | | | 594 | | 640 | 585 | 651 |
| | Std. Error | | | 5.0 | | | 2.0 | | 0.0 | 3.9 | 0.0 |
| | Sample Size | | | 23 | | | 209 | | 1 | 44 | 1 |
| Sample Date: | 5/24 | | | | | | | | | | |
| Females | Mean Length (mm) | | | 552 | 492 | | 562 | | | 550 | |
| | Std. Error | | | 5.3 | 17.7 | | 1.9 | | | 6.7 | |
| | Sample Size | | | 22 | 4 | | 199 | | | 28 | |
| Males | Mean Length (mm) | 586 | | 593 | 518 | 634 | 597 | | | 587 | |
| | Std. Error | 0.0 | | 6.0 | 21.2 | 0.0 | 2.2 | | | 4.8 | |
| | Sample Size | 1 | | 16 | 8 | 1 | 257 | | | 27 | |
| Sample Date: | 5/31 | | | | | | | | | | |
| Females | Mean Length (mm) | 413 | | 570 | 498 | 0 | 573 | 491 | 600 | 558 | |
| | Std. Error | 11.0 | | 5.0 | 8.1 | 0.0 | 1.7 | 8.9 | 0.0 | 4.0 | |
| | Sample Size | 2 | | 14 | 5 | 0 | 227 | 4 | 1 | 45 | |
| Males | Mean Length (mm) | 461 | | 596 | 474 | 582 | 595 | 496 | | 566 | 559 |
| | Std. Error | 11.3 | | 11.0 | 9.7 | 0.0 | 3.0 | 10.0 | | 7.1 | 0.0 |
| | Sample Size | 8 | | 12 | 22 | 1 | 177 | 2 | | 32 | 1 |
| Sample Date: | 6/07 | | | | | | | | | | |
| Females | Mean Length (mm) | 444 | | 575 | 487 | | 567 | 494 | 550 | 553 | 555 |
| | Std. Error | 8.5 | | 15.2 | 5.8 | | 1.6 | 10.4 | 10.5 | 4.0 | 0.0 |
| | Sample Size | 2 | | 7 | 19 | | 226 | 6 | 3 | 52 | 1 |
| Males | Mean Length (mm) | 503 | | 653 | 470 | | 596 | 455 | 622 | 581 | 599 |
| | Std. Error | 15.9 | | 0.0 | 5.7 | | 2.4 | 0.0 | 0.0 | 6.3 | 0.0 |
| | Sample Size | 3 | | 1 | 40 | | 199 | 1 | 1 | 50 | 1 |
| Sample Date: | 6/13 | | | | | | | | | | |
| Females | Mean Length (mm) | 479 | | 553 | 525 | | 572 | 497 | 593 | 555 | |
| | Std. Error | 35.0 | | 10.9 | 8.9 | | 1.3 | 0.0 | 0.0 | 4.1 | |
| | Sample Size | 2 | | 6 | 10 | | 269 | 1 | 1 | 30 | |
| Males | Mean Length (mm) | 503 | | 595 | 469 | | 588 | 517 | 652 | 587 | |
| | Std. Error | 13.5 | | 26.8 | 8.9 | | 1.9 | 22.4 | 0.0 | 8.2 | |
| | Sample Size | 2 | | 3 | 19 | | 240 | 5 | 1 | 19 | |

–Continued–

Appendix G.1. (Pg 2 of 2).

| | | Brood Year and Age Group | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1986 | | 1985 | | 1984 | | | 1983 | | 1982 |
| | | 0.2 | 1.1 | 0.3 | 1.2 | 0.4 | 1.3 | 2.2 | 1.4 | 2.3 | 2.4 |
| Sample Date: | 6/24 | | | | | | | | | | |
| Females | Mean Length (mm) | 473 | | 562 | 503 | | 574 | | | 550 | |
| | Std. Error | 23.0 | | 10.7 | 8.0 | | 1.5 | | | 6.9 | |
| | Sample Size | 2 | | 11 | 19 | | 245 | | | 11 | |
| Males | Mean Length (mm) | 466 | 336 | 587 | 483 | | 588 | 519 | 550 | 577 | |
| | Std. Error | 20.9 | 9.5 | 16.9 | 5.9 | | 2.2 | 34.5 | 0.0 | 8.7 | |
| | Sample Size | 4 | 2 | 6 | 49 | | 243 | 2 | 1 | 13 | |
| Sample Date: | 7/11 | | | | | | | | | | |
| Females | Mean Length (mm) | 520 | | 577 | 520 | | 583 | 516 | | 575 | |
| | Std. Error | 39.5 | | 12.3 | 3.9 | | 1.7 | 10.2 | | 3.6 | |
| | Sample Size | 2 | | 5 | 26 | | 181 | 7 | | 48 | |
| Males | Mean Length (mm) | 525 | 340 | 630 | 510 | | 599 | 533 | | 592 | |
| | Std. Error | 15.0 | 0.0 | 10.4 | 5.4 | | 2.0 | 18.8 | | 4.3 | |
| | Sample Size | 3 | 1 | 3 | 54 | | 205 | 10 | | 43 | |
| Sample Date: | 7/25 | | | | | | | | | | |
| Females | Mean Length (mm) | 532 | | 580 | 521 | | 586 | 539 | | 584 | |
| | Std. Error | 0.0 | | 10.5 | 4.0 | | 1.4 | 6.6 | | 4.3 | |
| | Sample Size | 1 | | 2 | 41 | | 233 | 13 | | 36 | |
| Males | Mean Length (mm) | | 360 | 583 | 526 | | 608 | 527 | | 607 | |
| | Std. Error | | 5.0 | 20.7 | 7.2 | | 2.4 | 11.6 | | 6.6 | |
| | Sample Size | | 2 | 5 | 47 | | 142 | 15 | | 24 | |
| All Samples: | 5/17–7/25 | | | | | | | | | | |
| Females | Mean Length (mm) | 472 | | 561 | 511 | | 573 | 517 | 564 | 560 | 555 |
| | Std. Error | 14.7 | | 2.8 | 2.6 | | 0.6 | 5.5 | 11.6 | 1.8 | 0.0 |
| | Sample Size | 11 | | 92 | 125 | | 1812 | 31 | 6 | 299 | 1 |
| Males | Mean Length (mm) | 487 | 346 | 592 | 495 | 608 | 595 | 523 | 616 | 585 | 603 |
| | Std. Error | 9.5 | 6.6 | 3.8 | 3.1 | 26.0 | 0.8 | 8.2 | 22.9 | 2.2 | 26.6 |
| | Sample Size | 21 | 5 | 69 | 239 | 2 | 1672 | 35 | 4 | 252 | 3 |

Appendix G.2. Mean length by age and sex of sockeye salmon from the commercial common property drift gillnet catches in the Bering River District, 1989.

| | | Brood Year and Age Group | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 1986 | | 1985 | | 1984 | | 1983 |
| | | 0.2 | 1.1 | 0.3 | 1.2 | 1.3 | 2.2 | 2.3 |
| Sample Date: | 6/21 | | | | | | | |
| Females | Mean Length (mm) | 505 | | 585 | 520 | 574 | | 553 |
| | Std. Error | 8.5 | | 5.0 | 6.9 | 2.0 | | 6.1 |
| | Sample Size | 6 | | 2 | 36 | 178 | | 26 |
| Males | Mean Length (mm) | 489 | 329 | 589 | 494 | 594 | 469 | 575 |
| | Std. Error | 21.5 | 5.9 | 13.0 | 8.5 | 2.6 | 10.3 | 8.5 |
| | Sample Size | 10 | 3 | 2 | 66 | 230 | 6 | 28 |

Appendix G.3. Mean length by sex and age of chinook salmon from the commercial common property drift gillnet catches in the Copper River District, 1989.

| | | Brood Year and Age Group | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1986 | 1985 | | 1984 | | | 1983 | | 1982 | |
| | | 1.1 | 1.2 | 2.1 | 0.4 | 1.3 | 2.2 | 1.4 | 2.3 | 1.5 | 2.4 |
| Sample Date: | 5/16 | | | | | | | | | | |
| Females | Mean Length (mm) | | | | 899 | 800 | | 892 | 796 | 959 | 895 |
| | Std. Error | | | | 0.0 | 6.6 | | 3.6 | 21.5 | 7.0 | 11.0 |
| | Sample Size | | | | 1 | 53 | | 132 | 9 | 2 | 19 |
| Males | Mean Length (mm) | | 573 | | | 817 | | 946 | 820 | 984 | 927 |
| | Std. Error | | 26.5 | | | 11.6 | | 4.0 | 11.5 | 14.1 | 11.7 |
| | Sample Size | | 4 | | | 44 | | 184 | 4 | 18 | 27 |
| Sample Date: | 5/27 | | | | | | | | | | |
| Females | Mean Length (mm) | | 589 | | | 814 | | 905 | 815 | 990 | 876 |
| | Std. Error | | 21.7 | | | 4.2 | | 3.7 | 21.6 | 10.0 | 12.6 |
| | Sample Size | | 5 | | | 77 | | 141 | 8 | 2 | 10 |
| Males | Mean Length (mm) | 471 | 585 | 430 | | 837 | 650 | 943 | 819 | 1003 | 911 |
| | Std. Error | 0.0 | 14.2 | 0.0 | | 5.7 | 45.0 | 4.3 | 49.9 | 13.3 | 24.0 |
| | Sample Size | 1 | 15 | 1 | | 66 | 2 | 188 | 3 | 8 | 11 |
| Sample Date: | 6/10 | | | | | | | | | | |
| Females | Mean Length (mm) | | 656 | | | 858 | | 925 | 852 | 940 | 912 |
| | Std. Error | | 16.1 | | | 5.8 | | 3.4 | 10.5 | 20.2 | 8.0 |
| | Sample Size | | 4 | | | 62 | | 151 | 7 | 5 | 19 |
| Males | Mean Length (mm) | 518 | 618 | 501 | | 854 | | 957 | 858 | 1011 | 963 |
| | Std. Error | 0.0 | 30.2 | 10.5 | | 9.1 | | 5.3 | 24.1 | 24.9 | 15.4 |
| | Sample Size | 1 | 6 | 2 | | 66 | | 156 | 5 | 7 | 15 |
| All Samples Combined | | | | | | | | | | | |
| Females | Mean Length (mm) | | 619 | | 899 | 824 | | 908 | 819 | 956 | 898 |
| | Std. Error | | 17.7 | | 0.0 | 3.5 | | 2.2 | 11.8 | 12.9 | 6.2 |
| | Sample Size | | 9 | | 1 | 192 | | 424 | 24 | 9 | 48 |
| Males | Mean Length (mm) | 495 | 591 | 477 | | 838 | 650 | 948 | 835 | 994 | 934 |
| | Std. Error | 23.5 | 11.9 | 24.3 | | 5.0 | 45.0 | 2.6 | 15.7 | 9.8 | 9.1 |
| | Sample Size | 2 | 25 | 3 | | 176 | 2 | 528 | 12 | 33 | 53 |

Appendix G.4. Mean length by age and sex of coho salmon from the commercial common property drift gillnet catches in the Copper River District, 1989.

| | | Brood Year and Age Group | | |
|---|---|---|---|---|
| | | 1986 | 1985 | 1984 |
| | | 1.1 | 2.1 | 3.1 |
| Sample Date: | 8/09 | | | |
| Females | Mean Length (mm) | 573 | 579 | 603 |
| | Std. Error | 10.7 | 10.9 | 7.0 |
| | Sample Size | 30 | 29 | 2 |
| Males | Mean Length (mm) | 555 | 597 | 591 |
| | Std. Error | 5.1 | 4.5 | 33.6 |
| | Sample Size | 152 | 195 | 7 |
| Sample Date: | 8/23 | | | |
| Females | Mean Length (mm) | 613 | 619 | |
| | Std. Error | 5.9 | 5.6 | |
| | Sample Size | 65 | 71 | |
| Males | Mean Length (mm) | 590 | 615 | |
| | Std. Error | 5.0 | 5.3 | |
| | Sample Size | 148 | 125 | |

Appendix G.5. Mean length by age and sex of coho salmon from the commercial common property drift gillnet catches in the Bering River District, 1989.

| | | Brood Year and Age Group | | | |
|---|---|---|---|---|---|
| | | 1986 | 1985 | | 1984 |
| | | 1.1 | 2.1 | 2.2 | 3.1 |
| Sample Date: | 8/09 | | | | |
| Females | Mean Length (mm) | 610 | 627 | | 580 |
| | Std. Error | 6.0 | 4.9 | | 0.0 |
| | Sample Size | 35 | 72 | | 1 |
| Males | Mean Length (mm) | 609 | 607 | 611 | 603 |
| | Std. Error | 5.5 | 4.7 | 0.0 | 44.1 |
| | Sample Size | 105 | 134 | 1 | 3 |

Appendix G.6. Mean length by sex and age of sockeye salmon in personal use and subsistence, fish wheel and dip net catches from the upper Copper River near Chitina, 1989.

| | | Brood Year and Age Group | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1987 | 1986 | | 1985 | | | 1984 | | 1983 | |
| | | 0.1 | 0.2 | 1.1 | 0.3 | 1.2 | 2.1 | 1.3 | 2.2 | 1.4 | 2.3 |
| **Dip Nets** | | | | | | | | | | | |
| Sample Dates: 6/02–7/30 | | | | | | | | | | | |
| Females | Mean Length (mm) | | 582 | | 558 | 529 | 386 | 563 | 472 | 560 | 546 |
| | Std. Error | | 0.0 | | 11.5 | 6.9 | 0.0 | 1.7 | 30.4 | 27.5 | 6.3 |
| | Sample Size | | 1 | | 6 | 104 | 1 | 438 | 3 | 2 | 14 |
| Males | Mean Length (mm) | | | 537 | 567 | 562 | | 581 | 446 | 645 | 569 |
| | Std. Error | | | 0.0 | 8.5 | 4.2 | | 2.0 | 26.0 | 0.0 | 9.7 |
| | Sample Size | | | 1 | 11 | 168 | | 552 | 2 | 1 | 14 |
| **Fish Wheels** | | | | | | | | | | | |
| Sample Dates: 6/04–7/26 | | | | | | | | | | | |
| Females | Mean Length (mm) | | 533 | 549 | 511 | 556 | | 568 | 493 | | 539 |
| | Std. Error | | 0.0 | 0.0 | 0.0 | 4.7 | | 3.2 | 24.7 | | 12.7 |
| | Sample Size | | 1 | 1 | 1 | 53 | | 89 | 5 | | 13 |
| Males | Mean Length (mm) | 432 | 501 | 534 | 0 | 560 | | 588 | 563 | | 580 |
| | Std. Error | 0.0 | 0.0 | 25.3 | 0.0 | 6.1 | | 5.3 | 21.6 | | 8.3 |
| | Sample Size | 1 | 1 | 8 | 0 | 69 | | 110 | 5 | | 10 |
| **All Samples Combined** | | | | | | | | | | | |
| Sample Dates: 6/02–7/30 | | | | | | | | | | | |
| Females | Mean Length (mm) | | 558 | 549 | 551 | 538 | 386 | 564 | 485 | 560 | 543 |
| | Std. Error | | 24.5 | 0.0 | 11.8 | 4.9 | 0.0 | 1.5 | 18.2 | 27.5 | 6.9 |
| | Sample Size | | 2 | 1 | 7 | 157 | 1 | 527 | 8 | 2 | 27 |
| Males | Mean Length (mm) | 432 | 501 | 534 | 567 | 561 | | 582 | 530 | 645 | 574 |
| | Std. Error | 0.0 | 0.0 | 22.3 | 8.5 | 3.5 | | 1.9 | 26.9 | 0.0 | 6.6 |
| | Sample Size | 1 | 1 | 9 | 11 | 237 | | 662 | 7 | 1 | 24 |

Appendix G.7. Mean length by sex and age of chinook salmon from sport fishery catches in the upper Copper River, 1989.

| | | Brood Year and Age Group | | | |
|---|---|---|---|---|---|
| | | 1985 | 1984 | 1983 | 1982 |
| | | 1.2 | 1.3 | 1.4 | 1.5 |
| **Gulkana River** | | | | | |
| Females | Mean Length (mm) | | 813 | 912 | 912 |
| | Std. Error | | 16.2 | 10.4 | 8.5 |
| | Sample Size | | 11 | 22 | 2 |
| Males | Mean Length (mm) | 924 | 923 | 958 | 990 |
| | Std. Error | 0.0 | 50.8 | 12.4 | 0.0 |
| | Sample Size | 1 | 4 | 20 | 1 |
| **Klutina River** | | | | | |
| Females | Mean Length (mm) | | 862 | 946 | 932 |
| | Std. Error | | 7.8 | 5.0 | 9.1 |
| | Sample Size | | 18 | 65 | 3 |
| Males | Mean Length (mm) | 627 | 845 | 976 | 1025 |
| | Std. Error | 15.5 | 17.8 | 7.4 | 0.0 |
| | Sample Size | 3 | 29 | 57 | 1 |

Appendix G.8. Mean length by sex and age of sockeye salmon escapements to the Copper River Delta, 1989.

| | | Brood Year and Age Group | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1987 | 1986 | | | 1985 | | | 1984 | | | 1983 | |
| | | 0.1 | 0.2 | 1.1 | 0.3 | 1.2 | 2.1 | 0.4 | 1.3 | 2.2 | 3.1 | 2.3 | 3.2 |
| **Eyak Lake – All Samples Combined** | | | | | | | | | | | | | |
| Sample Dates: 7/12–8/14 | | | | | | | | | | | | | |
| Females | Mean Length (mm) | | 532 | | 550 | 503 | | | 564 | 514 | | 570 | |
| | Std. Error | | 38.0 | | 4.6 | 3.9 | | | 1.5 | 10.3 | | 2.4 | |
| | Sample Size | | 2 | | 29 | 46 | | | 295 | 6 | | 70 | |
| Males | Mean Length (mm) | 401 | 444 | 408 | 570 | 459 | 390 | | 588 | 497 | | 594 | |
| | Std. Error | 36.7 | 6.0 | 11.5 | 6.8 | 3.2 | 28.8 | | 2.8 | 12.9 | | 5.0 | |
| | Sample Size | 3 | 20 | 20 | 36 | 155 | 5 | | 229 | 15 | | 39 | |
| **McKinley Lake** | | | | | | | | | | | | | |
| Sample Dates: 7/24 | | | | | | | | | | | | | |
| Females | Mean Length (mm) | | 475 | | 573 | 496 | | | 584 | 539 | | 580 | |
| | Std. Error | | 29.5 | | 5.1 | 3.3 | | | 1.6 | 0.0 | | 4.3 | |
| | Sample Size | | 2 | | 6 | 49 | | | 164 | 1 | | 26 | |
| Males | Mean Length (mm) | 320 | 430 | 329 | 610 | 444 | 340 | | 596 | 450 | | 623 | |
| | Std. Error | 0.0 | 3.1 | 4.2 | 9.3 | 1.7 | 0.0 | | 4.7 | 5.5 | | 7.3 | |
| | Sample Size | 1 | 30 | 14 | 3 | 207 | 1 | | 80 | 17 | | 12 | |
| **Twenty–Seven Mile Slough** | | | | | | | | | | | | | |
| Sample Dates: 6/30 | | | | | | | | | | | | | |
| Females | Mean Length (mm) | | 477 | | 573 | 500 | | | 572 | 500 | | 578 | |
| | Std. Error | | 23.7 | | 3.7 | 13.0 | | | 2.1 | 19.9 | | 9.1 | |
| | Sample Size | | 4 | | 42 | 11 | | | 123 | 3 | | 7 | |
| Males | Mean Length (mm) | | 437 | 334 | 594 | 438 | 321 | | 587 | 446 | | 626 | |
| | Std. Error | | 1.8 | 3.8 | 21.7 | 1.7 | 0.0 | | 13.8 | 5.1 | | 9.8 | |
| | Sample Size | | 94 | 9 | 10 | 187 | 1 | | 19 | 9 | | 4 | |
| **Ragged Point River** | | | | | | | | | | | | | |
| Sample Dates: 7/07 | | | | | | | | | | | | | |
| Females | Mean Length (mm) | | 502 | | 565 | 499 | | | 573 | 520 | | 571 | |
| | Std. Error | | 5.3 | | 3.9 | 3.4 | | | 2.4 | 1.2 | | 6.1 | |
| | Sample Size | | 21 | | 31 | 46 | | | 112 | 3 | | 23 | |
| Males | Mean Length (mm) | 435 | 454 | 342 | 590 | 455 | 326 | | 591 | 479 | | 608 | |
| | Std. Error | 0.0 | 3.9 | 8.2 | 21.4 | 4.1 | 0.0 | | 5.9 | 26.4 | | 4.7 | |
| | Sample Size | 1 | 105 | 15 | 10 | 114 | 1 | | 66 | 6 | | 22 | |
| **Martin Lake** | | | | | | | | | | | | | |
| Sample Dates: 7/20 | | | | | | | | | | | | | |
| Females | Mean Length (mm) | | 475 | 419 | 554 | 496 | | | 565 | 490 | | 570 | |
| | Std. Error | | 10.8 | 0.0 | 5.9 | 3.0 | | | 1.9 | 6.1 | | 3.2 | |
| | Sample Size | | 4 | 1 | 12 | 52 | | | 139 | 18 | | 55 | |
| Males | Mean Length (mm) | | 431 | 331 | 613 | 444 | 329 | | 612 | 462 | | 610 | |
| | Std. Error | | 3.0 | 3.5 | 8.5 | 2.4 | 7.0 | | 3.3 | 7.3 | | 5.4 | |
| | Sample Size | | 33 | 23 | 4 | 161 | 6 | | 24 | 22 | | 12 | |

–Continued–

| | | Brood Year and Age Group | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1987 | 1986 | | 1985 | | | 1984 | | | 1983 | |
| | | 0.1 | 0.2 | 1.1 | 0.3 | 1.2 | 2.1 | 0.4 | 1.3 | 2.2 | 3.1 | 2.3 | 3.2 |
| **Little Martin Lake** | | | | | | | | | | | | | |
| Sample Dates: 7/27 | | | | | | | | | | | | | |
| Females | Mean Length (mm) | | | | | 499 | | | 566 | 506 | | 570 | 522 |
| | Std. Error | | | | | 3.3 | | | 2.8 | 4.6 | | 2.5 | 0.0 |
| | Sample Size | | | | | 53 | | | 42 | 29 | | 55 | 1 |
| Males | Mean Length (mm) | | 429 | 329 | | 441 | 326 | | 588 | 439 | 315 | 589 | 457 |
| | Std. Error | | 0.0 | 2.5 | | 1.8 | 2.1 | | 5.7 | 3.1 | 0.0 | 4.9 | 0.0 |
| | Sample Size | | 1 | 79 | | 114 | 60 | | 35 | 38 | 1 | 28 | 1 |
| **Tokun Lake** | | | | | | | | | | | | | |
| Sample Dates: 8/08 | | | | | | | | | | | | | |
| Females | Mean Length (mm) | | | | 549 | 495 | | | 567 | 501 | | 566 | |
| | Std. Error | | | | 0.0 | 3.2 | | | 2.2 | 20.0 | | 3.7 | |
| | Sample Size | | | | 1 | 54 | | | 93 | 2 | | 5 | |
| Males | Mean Length (mm) | | | | 593 | 443 | | | 600 | 426 | | 577 | |
| | Std. Error | | | | 10.0 | 1.1 | | | 2.5 | 15.0 | | 14.5 | |
| | Sample Size | | | | 2 | 283 | | | 151 | 2 | | 4 | |
| **Pleasant Creek** | | | | | | | | | | | | | |
| Sample Dates: 7/01 | | | | | | | | | | | | | |
| Females | Mean Length (mm) | | 531 | | 573 | 499 | | | 574 | 511 | | 565 | |
| | Std. Error | | 16.0 | | 3.0 | 6.1 | | | 1.9 | 17.0 | | 0.0 | |
| | Sample Size | | 2 | | 38 | 24 | | | 143 | 2 | | 1 | |
| Males | Mean Length (mm) | | 435 | 319 | 615 | 435 | 363 | | 610 | 433 | | 603 | |
| | Std. Error | | 5.9 | 0.0 | 6.5 | 2.4 | 0.0 | | 2.8 | 4.1 | | 16.0 | |
| | Sample Size | | 9 | 1 | 21 | 57 | 1 | | 112 | 4 | | 2 | |
| **Martin River Slough** | | | | | | | | | | | | | |
| Sample Dates: 7/06 | | | | | | | | | | | | | |
| Females | Mean Length (mm) | | 499 | | 561 | 483 | | | 571 | 495 | | 559 | |
| | Std. Error | | 8.6 | | 4.8 | 3.7 | | | 3.1 | 9.8 | | 5.8 | |
| | Sample Size | | 6 | | 20 | 12 | | | 58 | 3 | | 12 | |
| Males | Mean Length (mm) | | 435 | 309 | 589 | 434 | 324 | | 592 | 437 | | 588 | 439 |
| | Std. Error | | 1.8 | 0.0 | 13.3 | 1.3 | 0.0 | | 8.3 | 3.6 | | 19.3 | 0.0 |
| | Sample Size | | 193 | 1 | 12 | 308 | 1 | | 29 | 36 | | 4 | 1 |
| **Thirty-Nine Mile Creek** | | | | | | | | | | | | | |
| Sample Dates: 7/14 | | | | | | | | | | | | | |
| Females | Mean Length (mm) | | 475 | | 582 | 498 | | 585 | | 484 | | 581 | |
| | Std. Error | | 0.0 | | 5.4 | 8.0 | | 1.6 | | 13.4 | | 3.3 | |
| | Sample Size | | 1 | | 11 | 21 | | 173 | | 8 | | 43 | |
| Males | Mean Length (mm) | | 439 | 337 | 610 | 446 | 328 | 612 | | 451 | | 610 | |
| | Std. Error | | 1.8 | 11.1 | 7.9 | 3.7 | 3.3 | 3.4 | | 5.2 | | 4.3 | |
| | Sample Size | | 8 | 5 | 9 | 85 | 4 | 119 | | 21 | | 32 | |

Appendix G.9. Mean length by sex and age of sockeye salmon escapements to the Bering River, 1989.

| | | Brood Year and Age Group | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | 1986 | | 1985 | | | 1984 | | 1983 |
| | | 0.2 | 1.1 | 0.3 | 1.2 | 2.1 | 1.3 | 2.2 | 2.3 |
| **Bering Lake** | | | | | | | | | |
| Sample Dates: 7/10 | | | | | | | | | |
| Females | Mean Length (mm) | | | 590 | 479 | | 570 | 429 | 570 |
| | Std. Error | | | 14.1 | 8.0 | | 1.5 | 0.0 | 4.6 |
| | Sample Size | | | 3 | 8 | | 256 | 1 | 31 |
| Males | Mean Length (mm) | 423 | 344 | 529 | 442 | | 601 | 426 | 599 |
| | Std. Error | 5.6 | 7.7 | 3.5 | 3.0 | | 2.1 | 9.0 | 5.8 |
| | Sample Size | 12 | 8 | 2 | 63 | | 182 | 4 | 19 |
| **Kushtaka Lake** | | | | | | | | | |
| Sample Dates: 8/04 | | | | | | | | | |
| Females | Mean Length (mm) | 461 | | | 476 | | 534 | 464 | 533 |
| | Std. Error | 0.0 | | | 6.5 | | 1.5 | 3.2 | 1.4 |
| | Sample Size | 1 | | | 26 | | 172 | 17 | 218 |
| Males | Mean Length (mm) | | | | 451 | 327 | 538 | 462 | 538 |
| | Std. Error | | | | 3.2 | 0.0 | 1.9 | 4.7 | 2.3 |
| | Sample Size | | | | 31 | 1 | 145 | 14 | 132 |

Appendix G.10. Mean length by sex and age of chinook salmon carcasses sampled from the Gulkana River, 1989.

| | | Brood Year and Age Group | | | |
|---|---|---|---|---|---|
| | | 1985 | 1984 | 1983 | |
| | | 1.2 | 1.3 | 1.4 | 2.3 |
| Females | Mean Length (mm) | 780 | 889 | 894 | 855 |
| | Std. Error | 0.0 | 8.9 | 6.7 | 0.0 |
| | Sample Size | 1 | 34 | 40 | 1 |
| Males | Mean Length (mm) | 745 | 935 | 975 | 865 |
| | Std. Error | 0.0 | 14.8 | 6.6 | 0.0 |
| | Sample Size | 1 | 23 | 37 | 1 |

Appendix G.11. Mean length by sex and age of sockeye salmon from commercial common property purse seine and drift gillnet catches in the Coghill and Unakwik districts, Prince William Sound, 1989.

| | | Brood Year and Age Group | | | | | |
|---|---|---|---|---|---|---|---|
| | | 1985 | 1984 | | 1983 | | 1982 |
| | | 1.2 | 1.3 | 2.2 | 1.4 | 2.3 | 2.4 |
| **Coghill District** | | | | | | | |
| Sample Dates: 6/21,7/04 | | | | | | | |
| Females | Mean Length (mm) | 524 | 587 | 518 | 584 | 583 | |
| | Std. Error | 12.3 | 0.9 | 12.2 | 11.8 | 4.2 | |
| | Sample Size | 7 | 513 | 6 | 3 | 21 | |
| Males | Mean Length (mm) | 522 | 613 | 514 | 664 | 614 | |
| | Std. Error | 45.4 | 1.3 | 25.9 | 0.0 | 7.2 | |
| | Sample Size | 3 | 369 | 5 | 1 | 12 | |
| **Unakwik District** | | | | | | | |
| Sample Dates: 6/29 | | | | | | | |
| Females | Mean Length (mm) | 535 | 586 | 592 | 570 | 582 | 0 |
| | Std. Error | 14.5 | 1.7 | 46.5 | 8.1 | 5.7 | 0.0 |
| | Sample Size | 2 | 214 | 2 | 3 | 18 | 0 |
| Males | Mean Length (mm) | 465 | 608 | 491 | 0 | 608 | 681 |
| | Std. Error | 0.0 | 1.8 | 63.0 | 0.0 | 10.2 | 0.0 |
| | Sample Size | 1 | 173 | 2 | 0 | 9 | 1 |

Appendix G.12. Mean length by sex and age of sockeye salmon in sampled escapements to Prince William Sound, 1989.

| | | Brood Year and Age Group | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1986 | | 1985 | | | | 1984 | | 1983 | | 1982 |
| | | 0.2 | 1.1 | 0.3 | 1.2 | 2.1 | 0.4 | 1.3 | 2.2 | 1.4 | 2.3 | 2.4 |
| **Coghill Weir** | | | | | | | | | | | | |
| Sample Dates: 6/22–7/28 | | | | | | | | | | | | |
| Females | Mean Length (mm) | | 580 | | 506 | 595 | | 579 | 530 | 609 | 579 | 582 |
| | Std. Error | | 0.0 | | 7.8 | 0.0 | | 0.8 | 8.3 | 5.2 | 2.3 | 11.7 |
| | Sample Size | | 1 | | 11 | 1 | | 866 | 24 | 4 | 104 | 5 |
| Males | Mean Length (mm) | | | 630 | 475 | 343 | | 614 | 465 | 613 | 619 | 636 |
| | Std. Error | | | 0.0 | 10.9 | 14.7 | | 1.4 | 5.3 | 13.6 | 3.2 | 8.3 |
| | Sample Size | | | 1 | 46 | 6 | | 575 | 65 | 3 | 90 | 6 |
| **Eshamy Weir** | | | | | | | | | | | | |
| Sample Dates: 7/16–8/28 | | | | | | | | | | | | |
| Females | Mean Length (mm) | | 551 | | 552 | | | 589 | 549 | | 596 | |
| | Std. Error | | 10.4 | | 1.0 | | | 5.7 | 5.5 | | 9.7 | |
| | Sample Size | | 15 | | 793 | | | 50 | 94 | | 7 | |
| Males | Mean Length (mm) | | 557 | | 575 | | | 615 | 571 | | 618 | |
| | Std. Error | | 11.6 | | 1.2 | | | 6.1 | 3.9 | | 12.2 | |
| | Sample Size | | 16 | | 605 | | | 39 | 82 | | 5 | |
| **Jackpot Weir** | | | | | | | | | | | | |
| Sample Dates: 7/17–8/14 | | | | | | | | | | | | |
| Females | Mean Length (mm) | | | 600 | 545 | | | 586 | 530 | 598 | 585 | |
| | Std. Error | | | 16.0 | 1.5 | | | 3.0 | 14.5 | 0.0 | 5.6 | |
| | Sample Size | | | 2 | 2 | | | 96 | 5 | 1 | 11 | |
| Males | Mean Length (mm) | 559 | | 655 | 564 | | 620 | 620 | 566 | | 630 | |
| | Std. Error | 0.0 | | 0.0 | 5.0 | | 0.0 | 1.5 | 11.8 | | 6.7 | |
| | Sample Size | 1 | | 1 | 17 | | 1 | 203 | 8 | | 14 | |

Appendix G.13. Mean length by sex and age of chinook salmon from the Wally H. Noerenberg Hatchery brood stock, 1989.

| | | Brood Year and Age Group | | | |
|---|---|---|---|---|---|
| | | 1986 | 1985 | 1984 | 1983 |
| | | 1.1 | 1.2 | 1.3 | 1.4 |
| Sample Dates: 7/23–8/21 | | | | | |
| Females | Mean Length (mm) | 670 | | 811 | 815 |
| | Std. Error | 0 | | 4.9 | 15.0 |
| | Sample Size | 1 | | 41 | 2 |
| Males | Mean Length (mm) | | 900 | 847 | 870 |
| | Std. Error | | 0.0 | 11.1 | 33.3 |
| | Sample Size | | 1 | 23 | 4 |

Appendix G.14. Mean length by sex and age of chum salmon from the Wally H. Noerenberg Hatchery brood stock, 1989.

| | | Brood Year and Age Group | | | |
|---|---|---|---|---|---|
| | | 1986 | 1985 | 1984 | 1983 |
| | | 0.2 | 0.3 | 0.4 | 0.5 |
| Sample Dates: 7/08–8/11 | | | | | |
| Females | Mean Length (mm) | 576 | 617 | 671 | 694 |
| | Std. Error | 7.7 | 2.1 | 3.8 | 3.9 |
| | Sample Size | 4 | 206 | 89 | 54 |
| Males | Mean Length (mm) | 549 | 639 | 698 | 726 |
| | Std. Error | 12.5 | 2.4 | 4.1 | 5.3 |
| | Sample Size | 11 | 185 | 92 | 39 |

## APPENDIX H

Average Weights of Salmon in the
Copper/Bering Rivers and Prince William Sound
Commercial Catch.

Appendix H.1. Average salmon weights from the commercial common property gillnet and purse seine fisheries in the Copper/Bering and Prince William Sound areas, 1989.[a]

| Area and Fishery | Average Weight (in pounds) | | | | |
|---|---|---|---|---|---|
| | Chinook | Sockeye | Coho | Pink | Chum |
| Copper/Bering Drift Gillnet | 26.64 | 6.72 | 0.11 | 4.02 | 7.85 |
| Prince William Sound Drift Gillnet | 16.62 | 7.24 | 6.42 | 3.60 | 8.81 |
| Prince William Sound Set Gillnet[b] | | | | | |
| Prince William Sound Purse Seine | 15.53 | 6.54 | 8.01 | 3.48 | 8.69 |

[a] Typically during each fishing period a portion of each delivery to a tender boat is counted into a brail, weighed, and the average weight is computed by dividing the net weight of the brail load by the number of fish. This average weight is used to estimate the number of fish in the total delivery. The average weight in this table is based on the total weight of the catch by species, gear type, and fishery from fish ticket summaries divided by the total number of fish sold by species, gear type, and fishery as reported on fish tickets.

[b] No set gillnet catches occured in Prince William Sound during 1989.